

## **/// The Entry-Level Horizontal Shredder** **for long strips and skeletons**



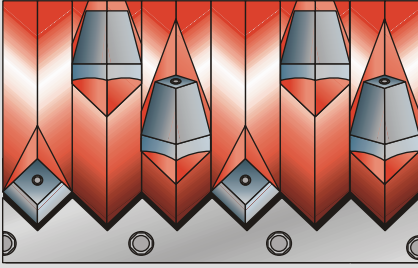
### **The Horizontal Beaver 400 – 1600**

**economical and reliable**

The 1st in the diverse line of WEIMA horizontal shredders. The Horizontal Beaver 400 – 1600 shredder was especially designed for small to medium volume applications. The scrap is fed in with a vibrating con-

veyor from panel saws, rip saws, CNC routers and other applications that provide long narrow strips or skeletons. The machine is used in many industries including wood, plastic, automotive and recycling.

## Horizontal Beaver technology



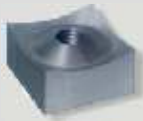
### Patented V-rotor

- Optimum material intake
- Minimum cutting knife wear
- Low power consumption yet high output
- Narrow cutting gap between rotor and counterknife (Super-Cut)
- Defined knife projection

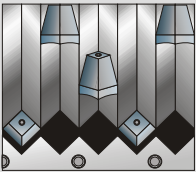
The profiled V-rotor is manufactured in one piece and mounted by sturdy rotor bearings. Special knife holders are welded into milled knife pockets around its circumference. The cutting knives are inserted into these holders and screwed in place from behind. As a result, quick knife changing is possible because the design prevents the screw heads from being damaged during shredding.

The concave cutting knives can be turned four times and guarantees a precise cut at a high throughput rate.

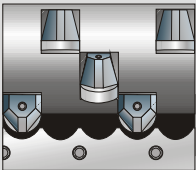
The rotor diameter is:  
10" / 252 mm



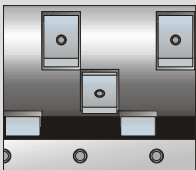
### Other rotor versions



Profiled rotor with cutting knives inserted in the recesses



Flat rotor with round or pot knives



Flat rotor with rectangular or square turnable knives

## The economical and reliable shredder

Horizontal Beaver 400 – 1600

### The horizontal shredders for all sort of woods

The Horizontal Beaver shredder is used in hundreds of small to medium-sized businesses worldwide. An outstanding feature is their tough construction for an extremely long service life (even if instal-

led outdoors). The high number of shredders manufactured in this series is a result of reliable technology with an excellent cost-benefit ratio.



Horizontal Beaver 800 in operation



The screen size perforation determines the size of the shredded material



Custom machine configurations



Optional belt conveyor at CNC Router application for skeletons

## The economical and reliable shredder

Horizontal Beaver 400 – 1600

### The Horizontal Beaver shredders in action

The Horizontal Beaver is a horizontal shredder that receives the material from a vibratory or belt conveyor system. From the conveyor a feed roller system 'pinches' and feeds the material into the V-Rotor. The Weima pinch roller system is equipped with replaceable, aggressively shaped infeed bars.

The slow turning rotor eliminates the high noise usually associated with volume reducing machines and therefore

enables the location of the machinery to areas convenient for waste disposal rather than locations that protect from noise.

The feed rate of the pinch roll is controlled by sophisticated electronic controls that 'read' the amp load on the main motor. This optimization acts to keep material in constant contact with the rotor while not exerting excessive pressure that causes premature bearing failure.



Horizontal Beaver 400 in a panel saw application



Horizontal Beaver 400 at a rip saw application

## Horizontal Beaver technology



Pinch roller system with replaceable, aggressively shaped infeed bars



Bottom infeed roll (optional)



High quality sealed bearing



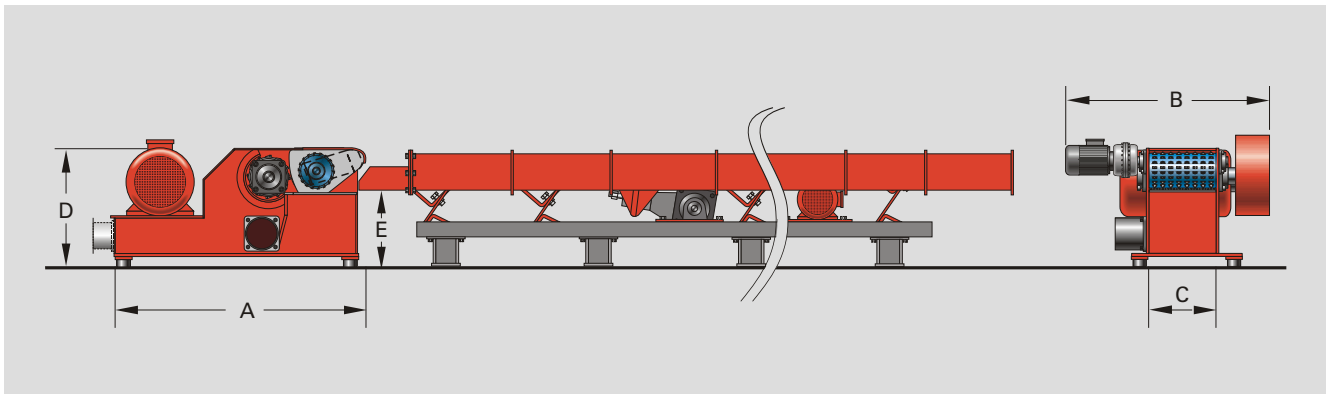
Modular vibrating conveyor system with integrated drive-train for easy installation



Integrated control panel for easy set-up (Plug & Play)

## Technical Data

### Horizontal Beaver 400 – Horizontal Beaver 1600



Horizontal Beaver	400	600	800	1000	1300	1600
Feed opening (inch):	15.7 x 4	22.5 x 4	31.5 x 4	39.4 x 4	51.2 x 4	63.2 x 4
(mm):	400 x 100	600 x 100	800 x 100	1,000 x 100	1,300 x 100	1,600 x 100
Throughput:	The throughput rate depends on material and screen size from 3/8"-2" (10 - 50 mm)					
Rotor diameter (inch/mm):	10 / 252	10 / 252	10 / 252	10 / 252	10 / 252	10 / 252
Rotor speed (rpm):	500 - 600	500 - 600	500 - 600	500 - 600	500 - 600	500 - 600
Power (hp/kW):	30 / 22	30/40 / 22/30	30/40 / 40/50	40/50 / 30/37	40/50 / 30/37	40/50 / 30/37
Rotor knives:	18	32	42	54	68	86
Screen size (inch/mm):	3/8-2 / 10-50	3/8-2 / 10-50	3/8-2 / 10-50	3/8-2 / 10-50	3/8-2 / 10-50	3/8-2 / 10-50
Connection-Ø (inch/mm):	8 / 200	8 / 200	8 / 200	10 / 250	10 / 250	10 / 250
Air speed (cfm, m/sec):	1,900 / 28	1,900 / 28	1,900 / 28	3,000 / 28	2,900 / 28	2,900 / 28
Weight (approx. lbs/ ca.kg):	2,650 / 1,200	4,180 / 1,900	5,070 / 2,300	5,730 / 2,600	6,830 / 3,100	7,900 / 3,580
A (inch/mm):	62 / 1,580	62 / 1,580	62 / 1,580	62 / 1,580	62 / 1,580	62 / 1,580
B (inch/mm):	38 / 965	47 / 1,200	56 / 1,420	63 / 1,600	75 / 1,905	87 / 2,210
C (inch/mm):	15.7 / 400	22.5 / 600	31.5 / 800	39.4 / 1,000	51.2 / 1,300	63.2 / 1,600
D (inch/mm):	30.5 / 770	30.5 / 770	30.5 / 770	30.5 / 770	30.5 / 770	30.5 / 770
E (inch/mm):	18 / 460	18 / 460	18 / 460	18 / 460	18 / 460	18 / 460

Demonstrations and tests with your materials are possible in our technical laboratory by prior agreement.

PLC available upon request.

Special configurations are available, call for details.

### Shredding systems by WEIMA

- Replaceable strips on infeed roll
- Plug & Play design with soft start
- Low maintenance
- Oversized drive-train
- Limited lifetime rotor warranty
- WEG - Weima Exchange Guarantee

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