

# ROCKY

## TRANSFORMER SAND CRUSHER

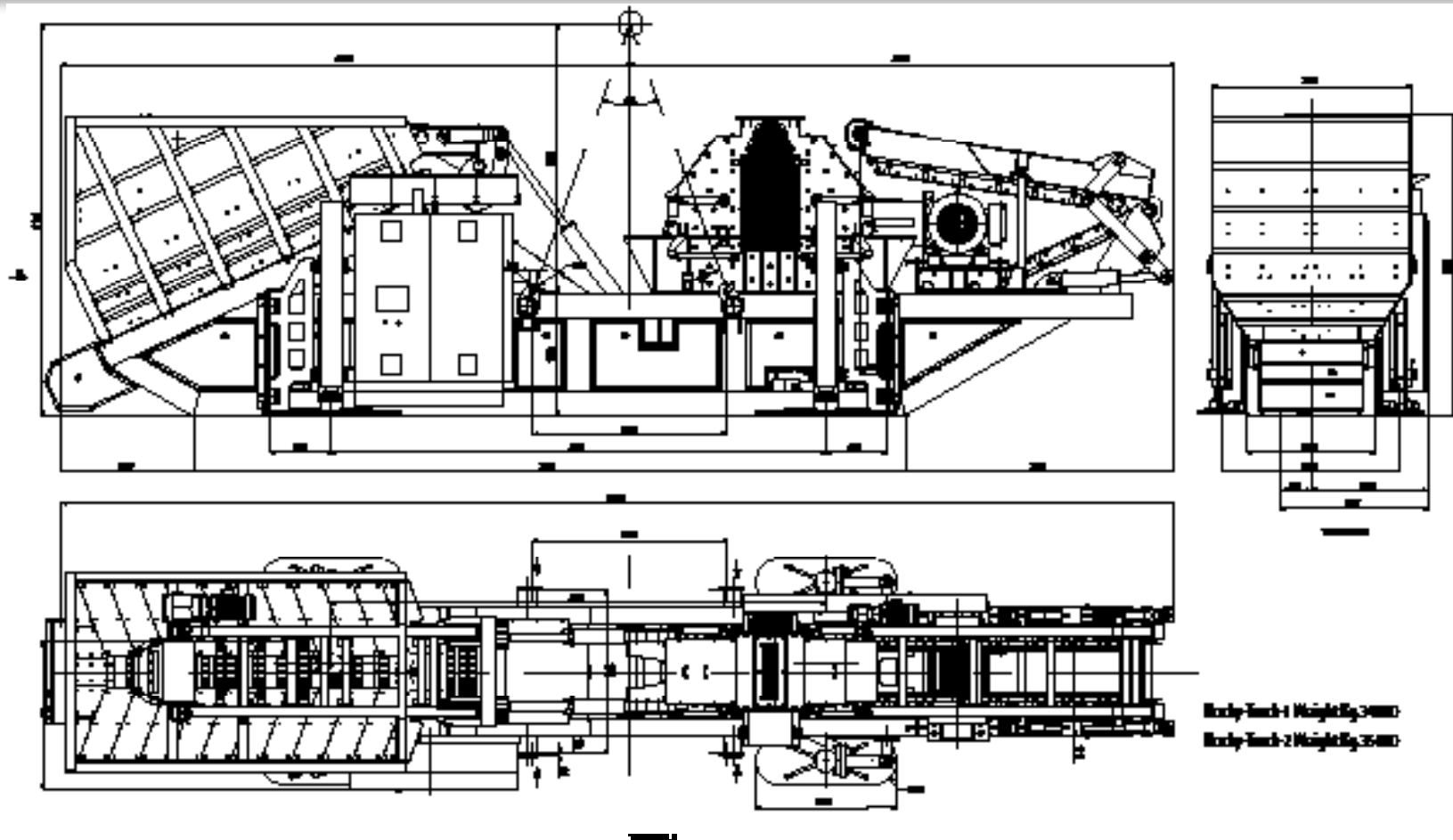


Ricambi e  
Attrezzature  
per la  
Frantumazione

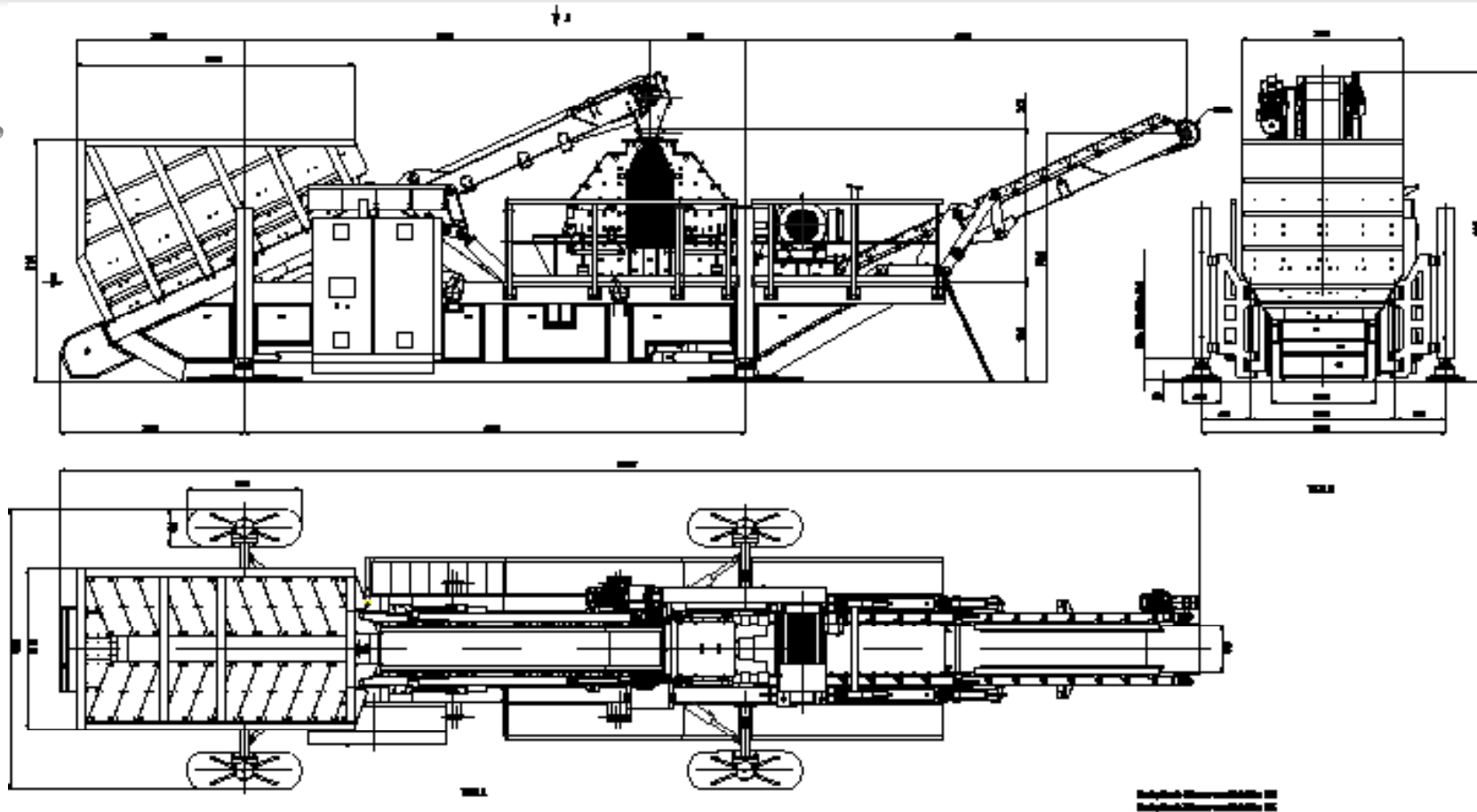
Presentation Created by RAF S.p.A.



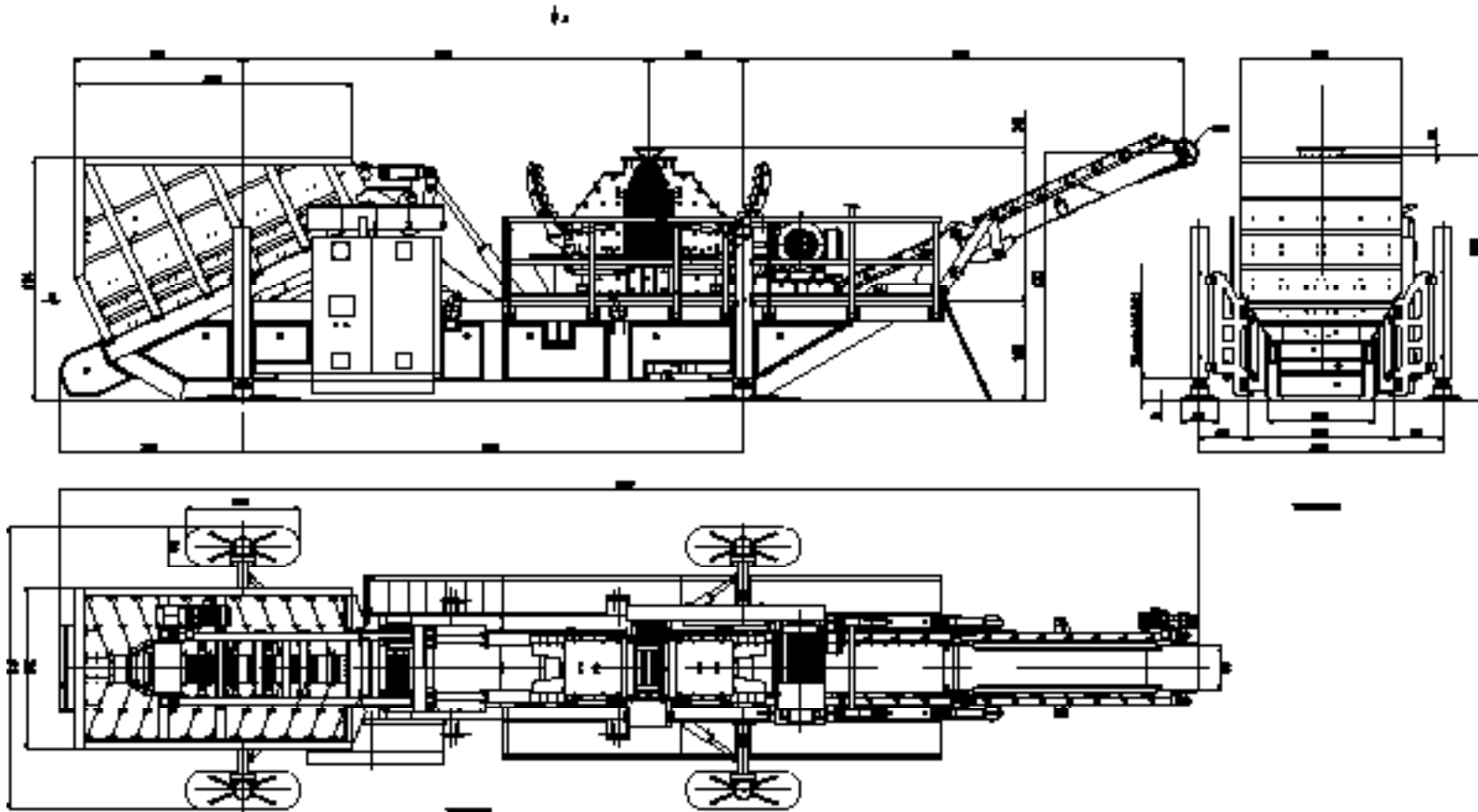
# ROCKY TRANSFORMER SAND CRUSHER - *Lifting Scheme*



# ROCKY TRANSFORMER SAND CRUSHER - Overall dimensions

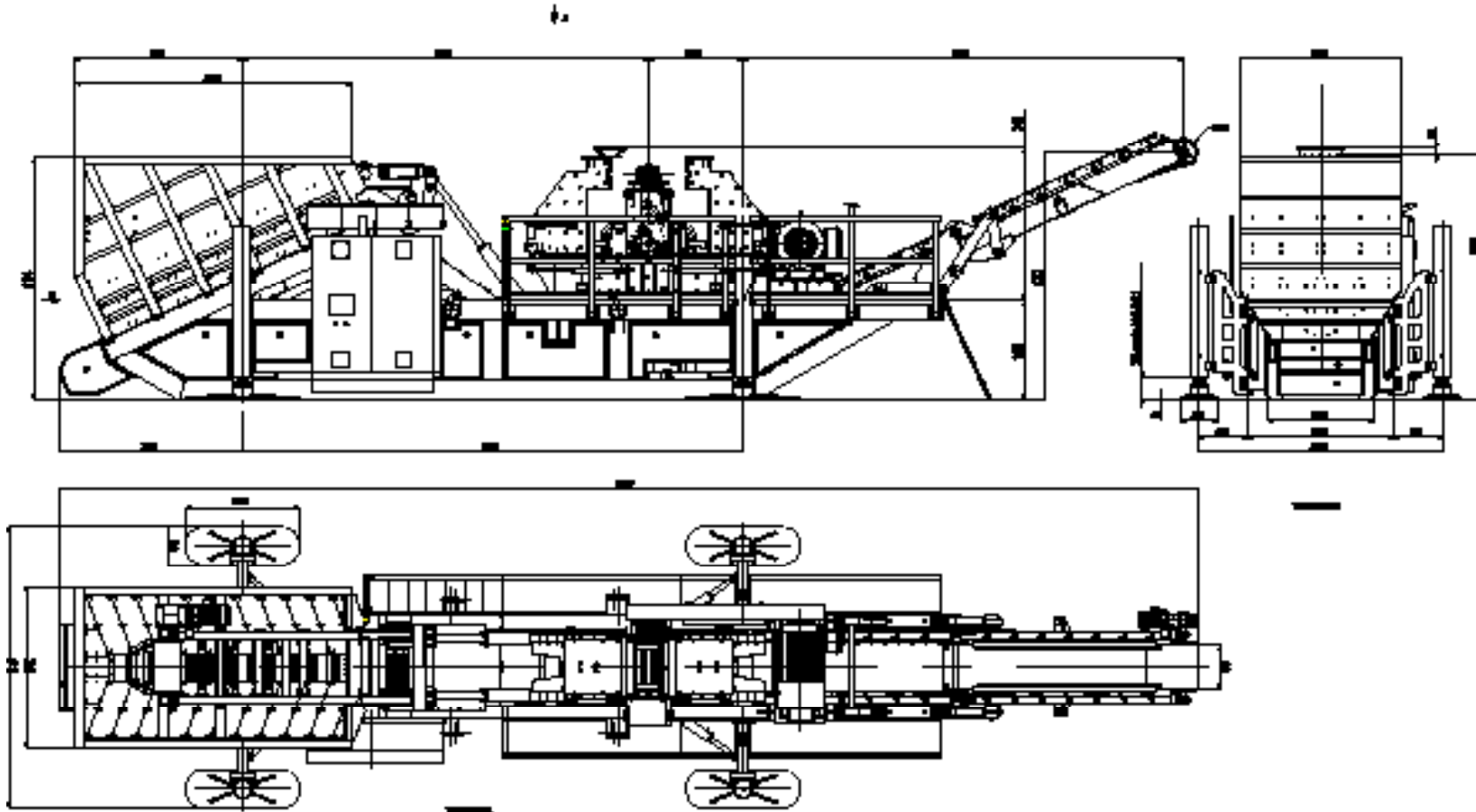


# ROCKY TRANSFORMER SAND CRUSHER - *Maintenace configuration*



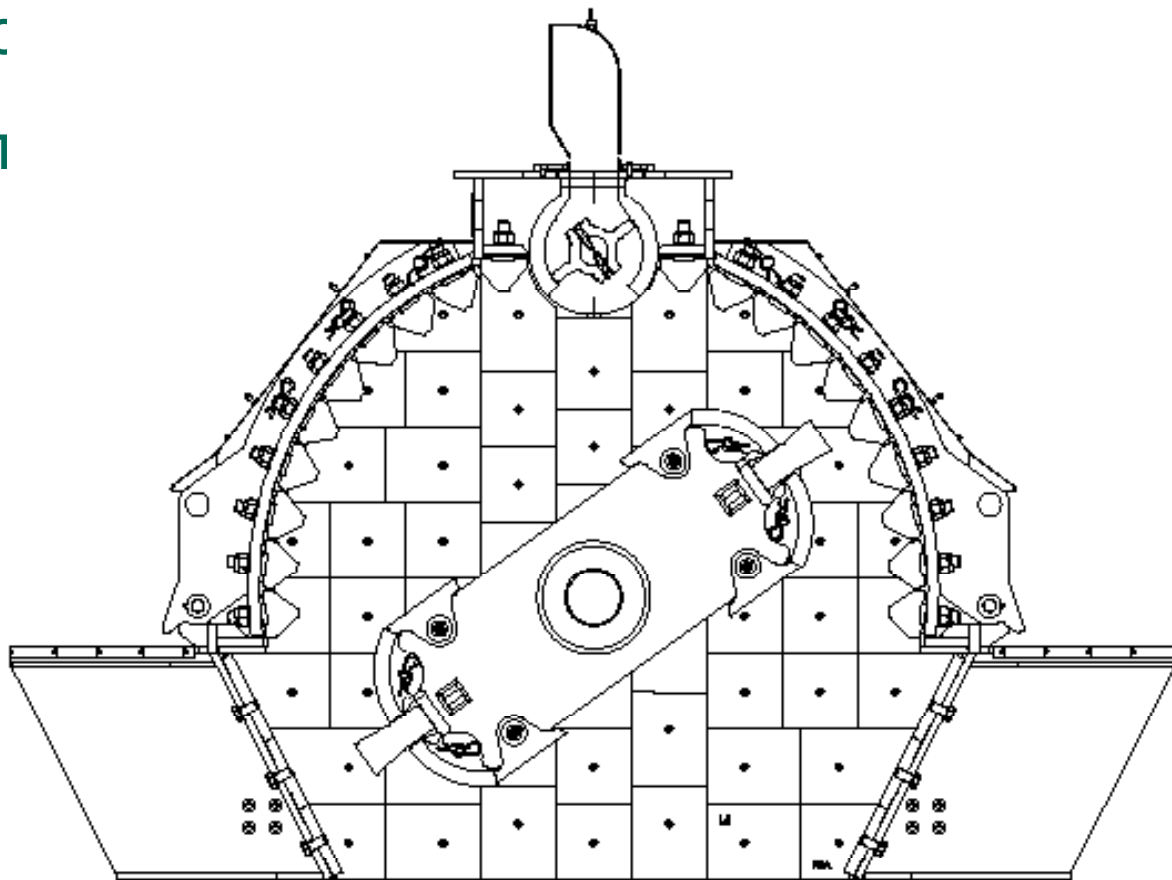


# ROCKY TRANSFORMER SAND CRUSHER - *Maintenace configuration*



# WHY IT WORKS

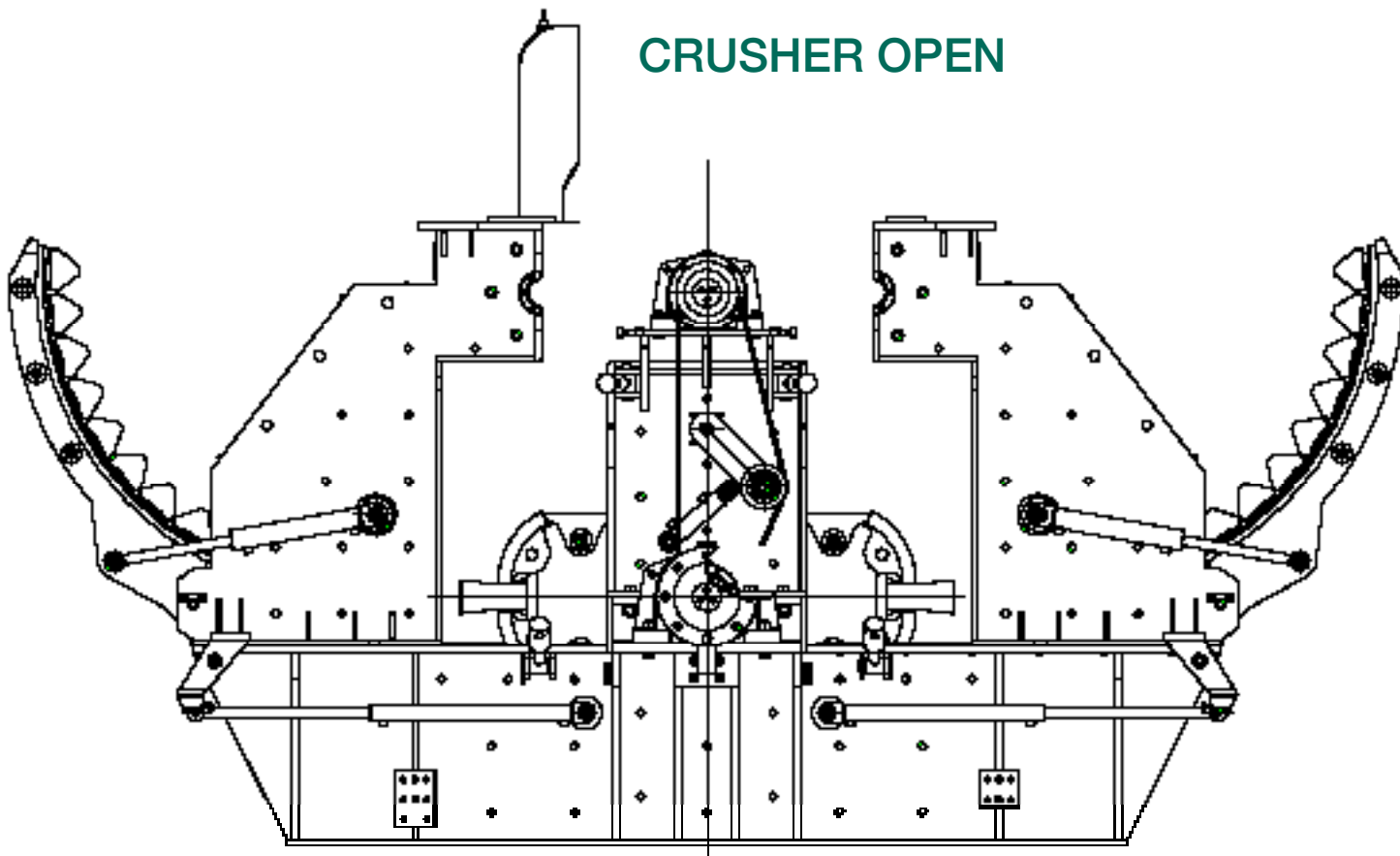
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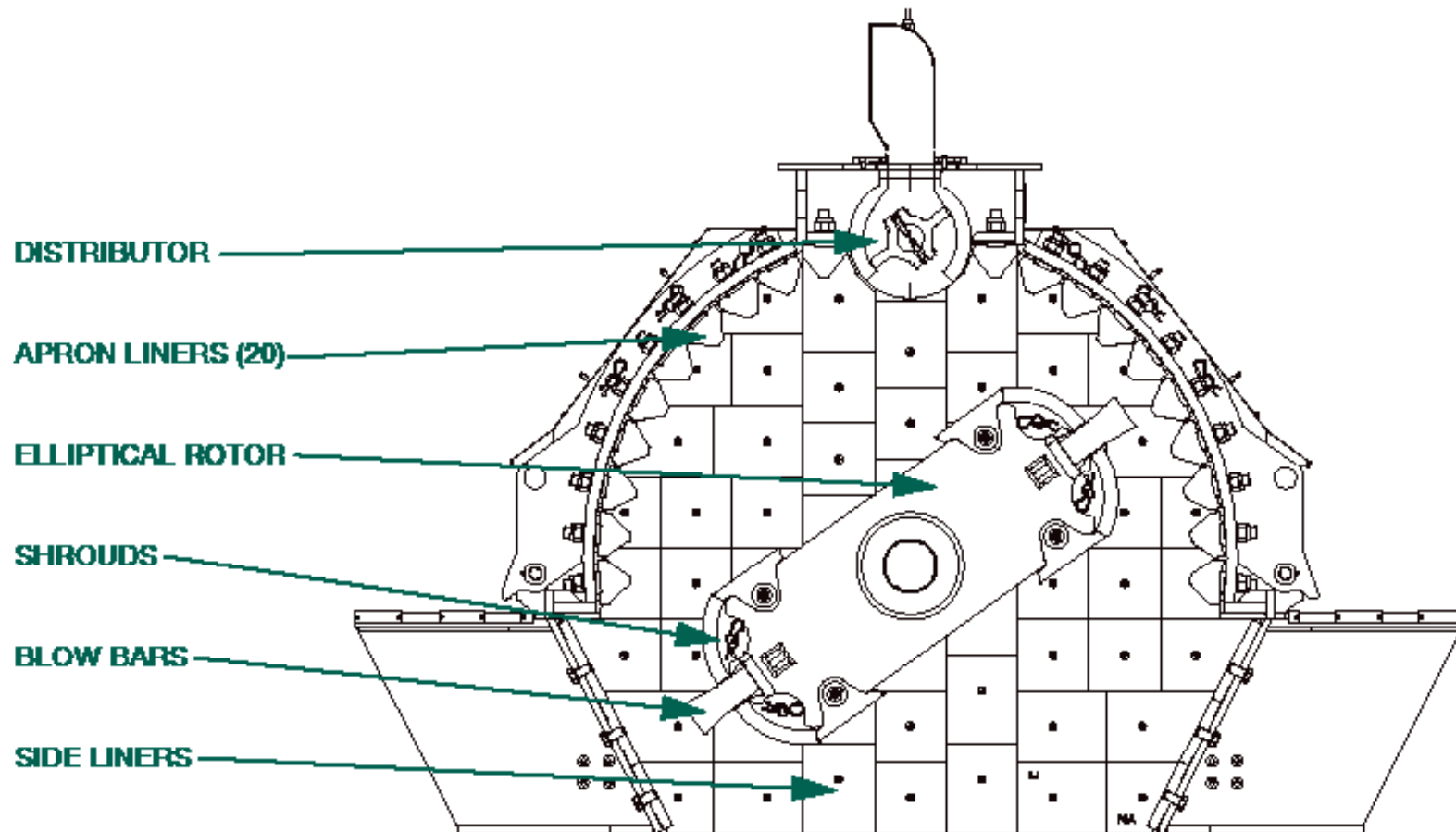


# WHY IT WORKS

CRUSHER OPEN

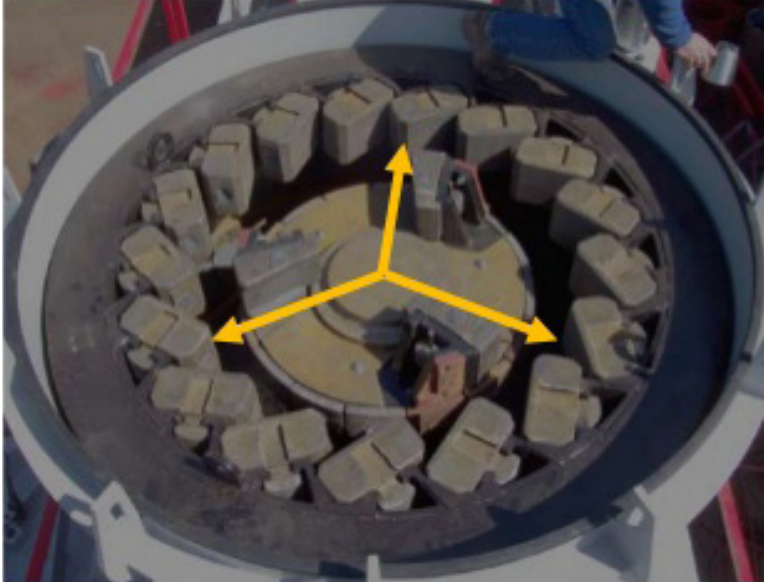


# WHY IT WORKS





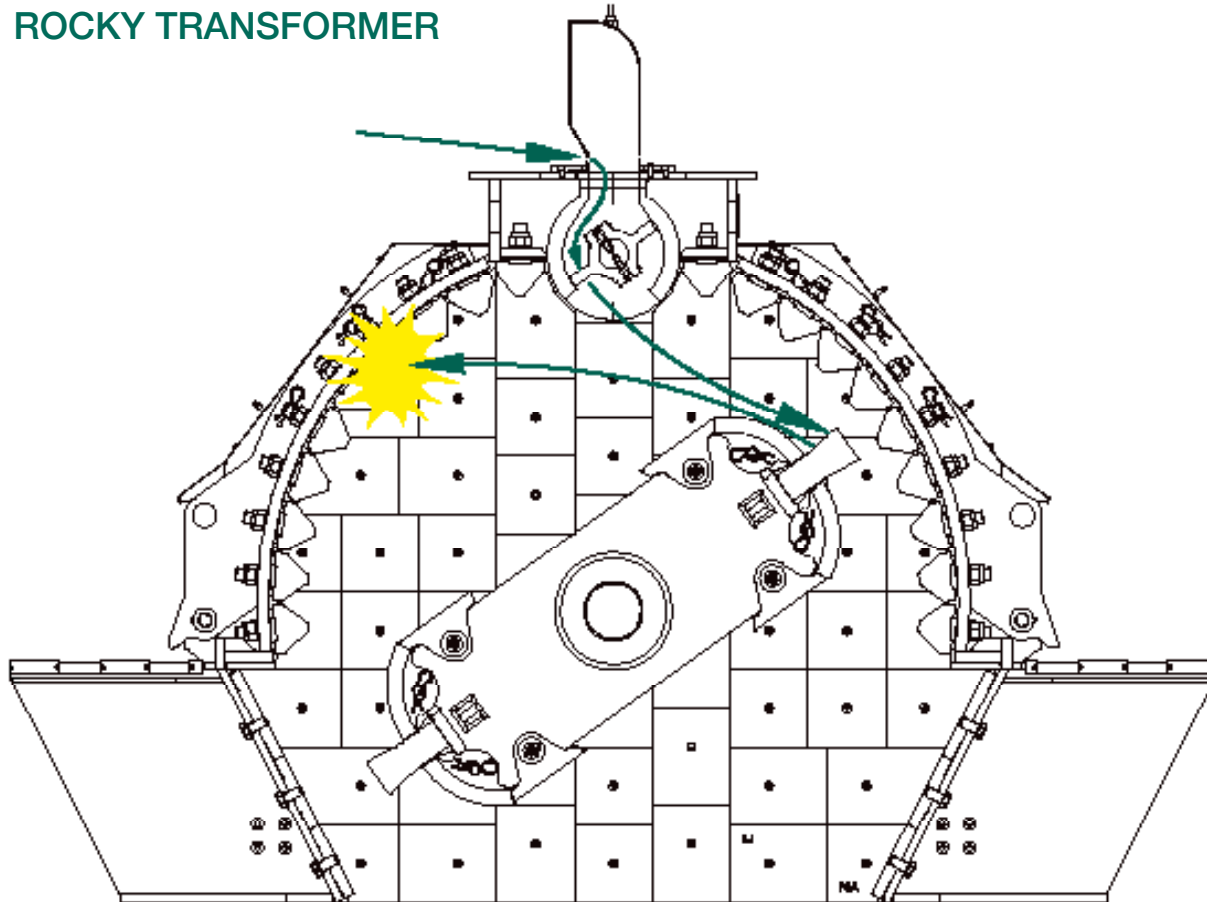
# VSI vs ROCKY TRASFORMER



- VSI'S use centrifugal force to pull material outward across the shoes.
- This sliding motion of material is extremely abrasive on the surface of the wear parts.
- A regular maintenance schedule of a VSI typically requires changing out the entire table worth of part ( 17 anvils and 3 shoes on this machine)
- Proportion between feed material and usable crushed product in a single pass:  
VSI 50% - ROCKY 90%

# VSI vs ROCKY TRANSFORMER

## ROCKY TRANSFORMER

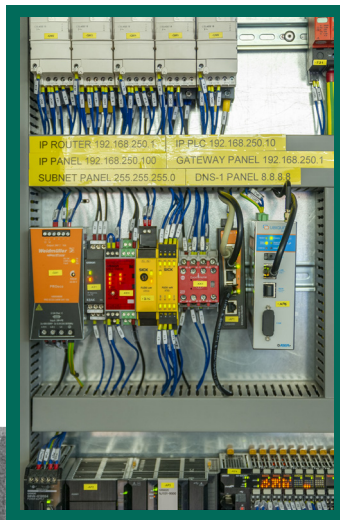


- The Rocky uses an accelerated impact crushing process.
- Material is thrown into the approaching blowbars on the main rotor.
- The result is a near 90 degree impact.
- The rocky's wear parts maintenance schedule is in function of material crushed and condition of the blow bars.



# THE BRAINS BEHIND THE BRAWN

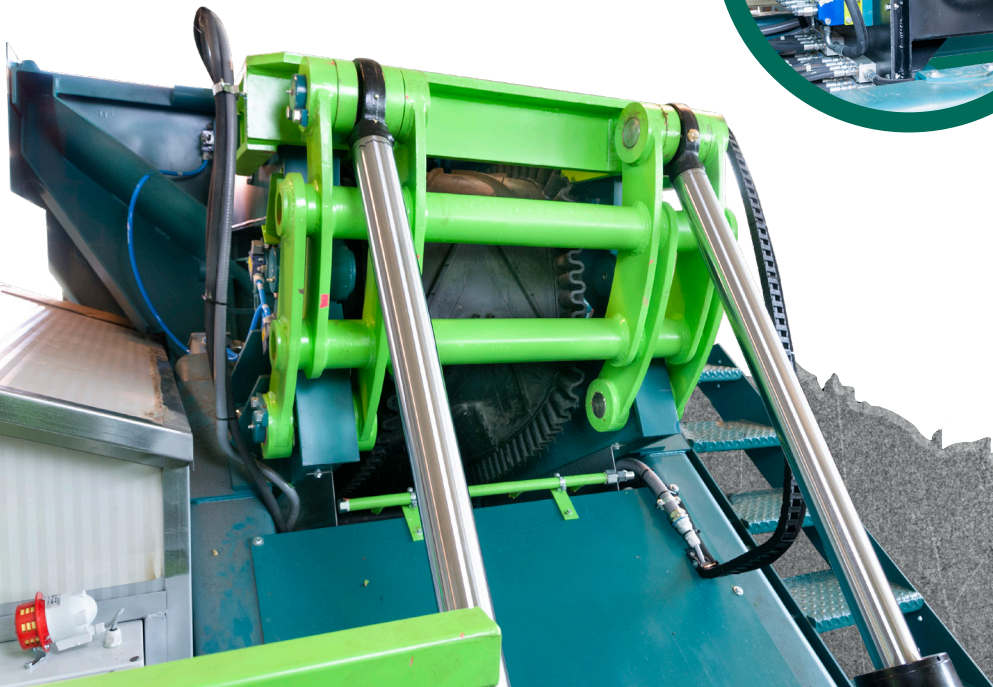
- The Rocky has two onboard motor inverters
- Independently controls, the speed of the rotor and the speed of the infeed belt.
- By adjusting both the crushing AMP' s and the rotors RPM' s, gradation of output can be fine tuned.





# HIGHLIGHTS

- High efficiency
- Easy maintenance
- Low operating costs
- Longer wear life of parts





# HOW IT WORKS

**FEED MATERIAL**

**Crusher By - Product / Sized Material**



**ROCKY TRASFORMER EHSI SAND CRUSHER**

**1 - 3/8" Minus Feed Size**



**OUTPUT - SINGLE PASS (ASTM C - 33%)**

**85 - 100 % Useable Sand**



# ROCKY SAMPLE GRADATIONS



- Colorado Sample
- 3/8” mm. Minus Feed
- Sieve Deposit

		POST CRUSH			
		780 RPM	800 RPM	850 RPM	
SIEVE	% PASSING	% PASSING	% PASSING	% PASSING	
• 1/4”	100.00	-	-	-	
• # 4	91.00	99.60	99.70	100.00	
• # 8	42.00	90.40	93.60	98.40	
• # 16	11.00	63.80	70.30	87.40	
• # 30	-	39.00	44.40	63.20	
• # 50	-	22.20	25.50	37.40	
• # 100	-	11.80	13.50	19.40	
• # 200	0.10	5.80	590	8.00	



# ROCKY SAMPLE GRADATIONS



- Texas PerCrush
- 3/8” mm. Minus Feed
- River Rock



## POST CRUSH

950 RPM

SIEVE	% PASSING	% PASSING
• 1/4”	100.00	-
• 3/8”	95.30	-
• # 4	18.50	100.00
• # 8	0.7	53.70
• # 16	0.1	31.50
• # 30	-	19.30
• # 50	-	11.40
• # 100	-	6.90
• # 200	-	4.10
• Pan	0	-

# ROCKY SAMPLE GRADATIONS



- Viterbo (Vt) sample
- 16/30 mm Minus feed
- Basalt Deposit



POST CRUSH

1170 RPM

SIEVE	% PASSING	% RETAINED PROGRESSIVE
• 10 mm.	100,00	-
• 8 mm.	98,58	1,42
• 6,3 mm.	96,35	3,65
• 5 mm.	92,58	7,42
• 4 mm.	88,93	11,07
• 2 mm.	67,93	32,07
• 1 mm.	43,97	56,03
• 0,50 mm.	28,18	71,82
• 0,25 mm.	18,14	81,86
• 0,0125 mm.	10,49	89,51
• 0,063 mm.	6,2	93,80
• <0,063 mm.	0	100



# ROCKY SAMPLE GRADATIONS



- Faloppio (Co) sample
- 2/4 - 4/8 mm Minus feed
- Limestone Deposit



POST CRUSH

1170 RPM

SIEVE	% PASSING	% RETAINED PROGRESSIVE
• 10 mm.	-	-
• 8 mm.	-	-
• 6,3 mm.	-	-
• 5 mm.	100	-
• 4 mm.	97,22	2,78
• 2 mm.	74,07	25,93
• 1 mm.	48,61	51,39
• 0,50 mm.	33,33	66,67
• 0,25 mm.	22,69	77,31
• 0,0125 mm.	14,49	85,51
• 0,063 mm.	8,33	91,67
• <0,063 mm.	0	100







**Ricambi e  
Attrezzature  
per la  
Frantumazione**

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