

Megashredders®

Complete Line of Shredders for Big and Small Yards



Riverside Engineering
Makers of the MEGASHREDDER®

866.764.7567
megashredder.com

A full-page photograph of a construction worker from behind, walking on a dirt path at an industrial site. The worker is wearing a white hard hat, a yellow safety vest with orange reflective stripes, and blue jeans. The vest features the Riverside Engineering logo and text. In the background, there are industrial structures, including a large metal tank and various pipes. A semi-transparent dark green box containing text is overlaid on the right side of the image.

“My partnership with Riverside Engineering is really unique. It’s them I approach to address specific problems and to engineer solutions into our process.”

*— Jordan Vexler, COO
Monterrey Iron & Metal, Co.*



THE RIVERSIDE FAMILY OF MEGASHREDDERS®
ARE DESIGNED FROM THE GROUND UP
TO MINIMIZE OPERATING AND MAINTENANCE COSTS
WHILE MAXIMIZING PRODUCTIVITY AND PROFITS.

20%

REDUCTION

ELECTRICAL COSTS

REDUCED KWH PER TON
(10% TO 20%)

5X

INCREASE

LIFE SPAN OF PARTS

DRAMATICALLY INCREASED WEAR
PARTS LIFE (2X TO 5X)

**MAXIMUM
UTILITY**

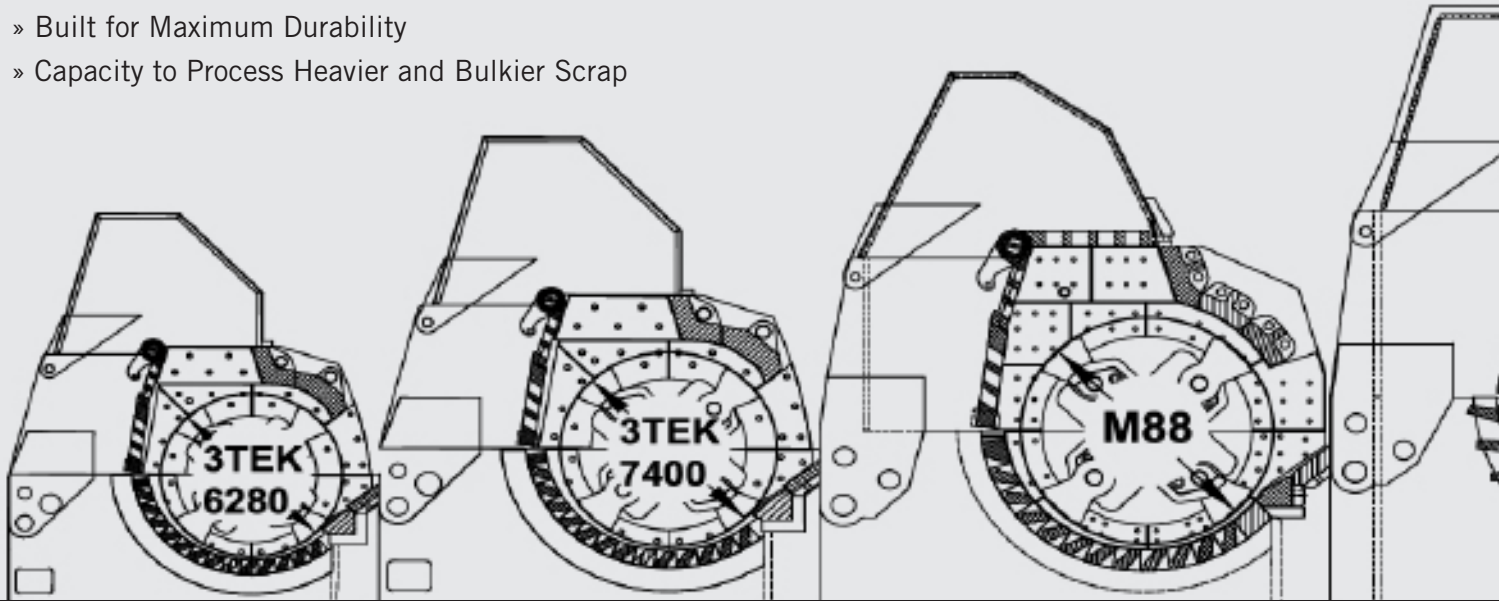
SHREDDER DRIVE

AUTOMATED CONTROLS,
MAXIMIZING SHREDDER DRIVE MO-
TOR UTILIZATION

MEGASHREDDER® ENGINEERING IN ALL PRODUCTION SIZES

Engineering Design Goals

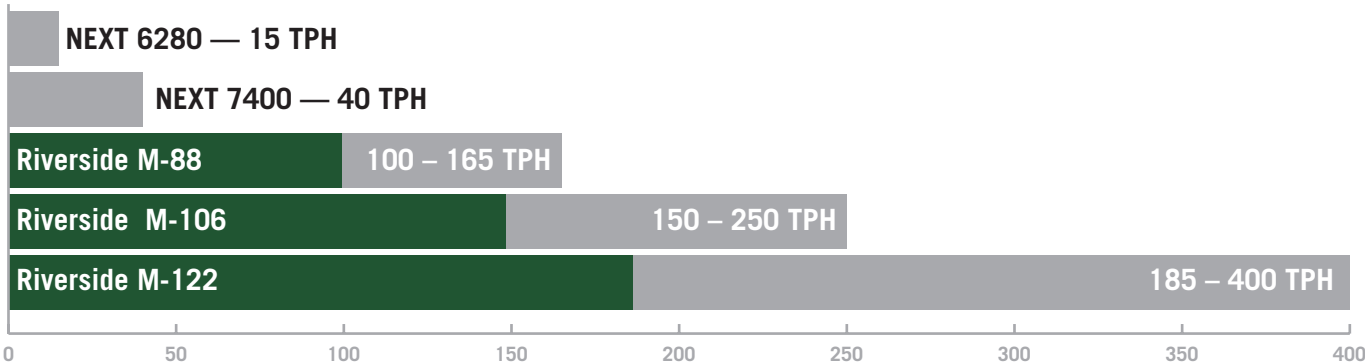
- » Increase Shredder Efficiency
- » Highest throughput per HP in Industry
- » Easier, Safer Operation and Maintenance
- » Built for Maximum Durability
- » Capacity to Process Heavier and Bulkier Scrap

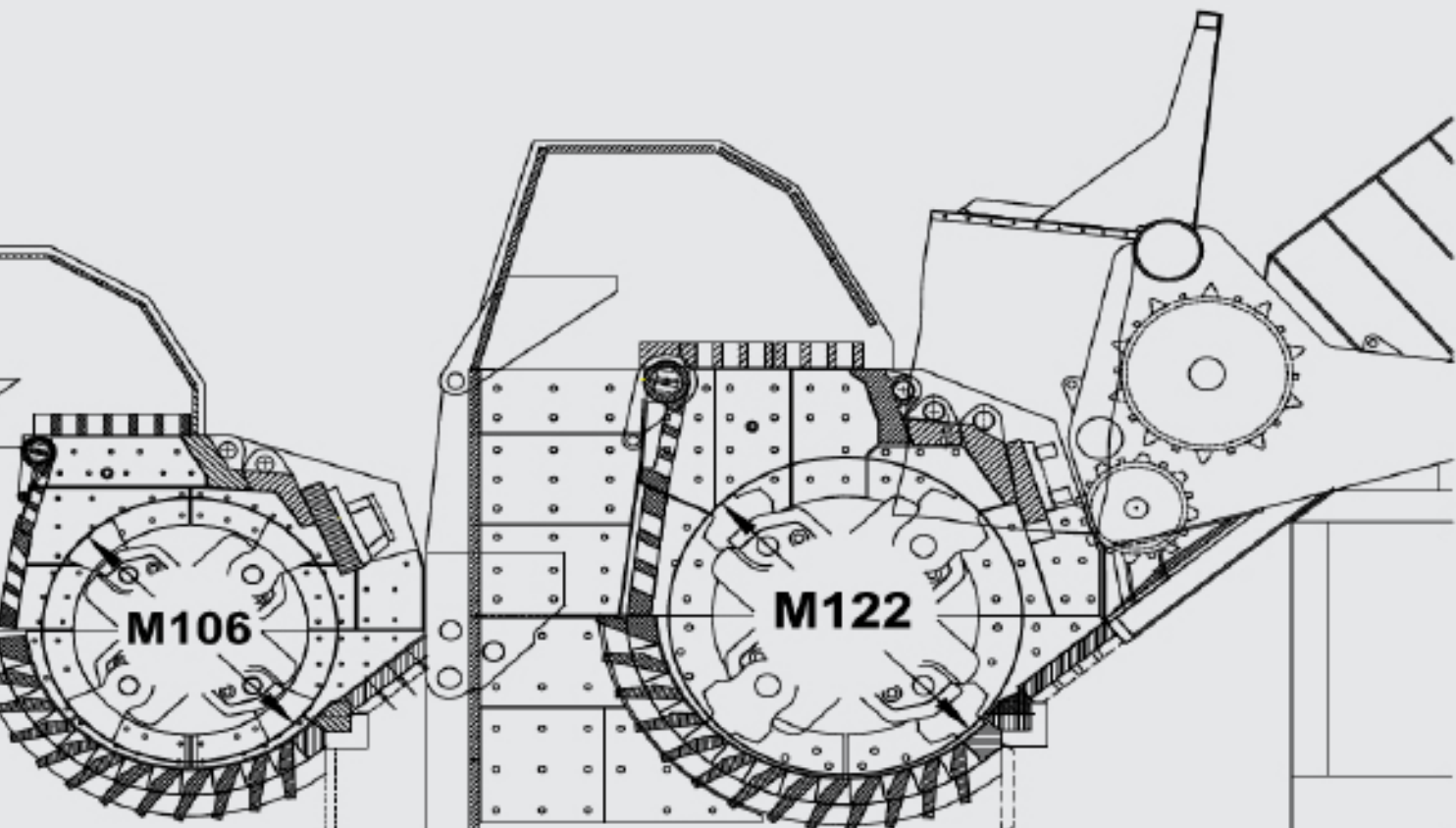


HAMMER WEIGHT | DISK ROTOR

NEXT	6280	240 lbs
	7400	290 lbs
Riverside	M-88	450 lbs
	M-106	675 lbs
	M-122	1,100 lbs

THROUGHPUT

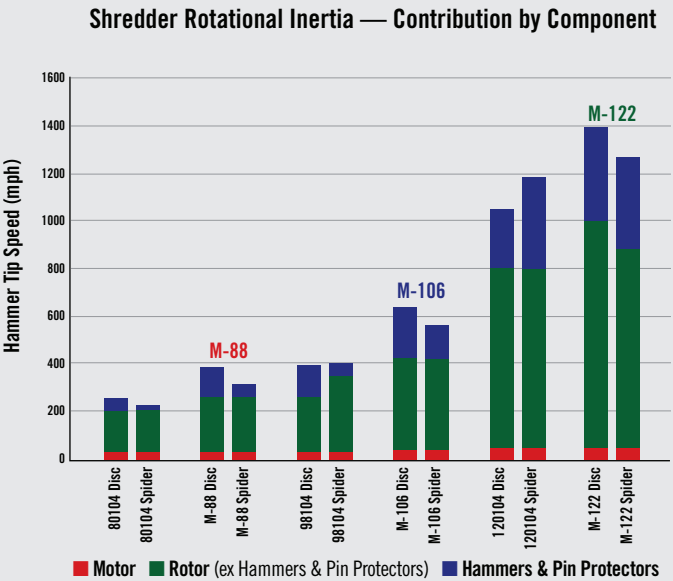
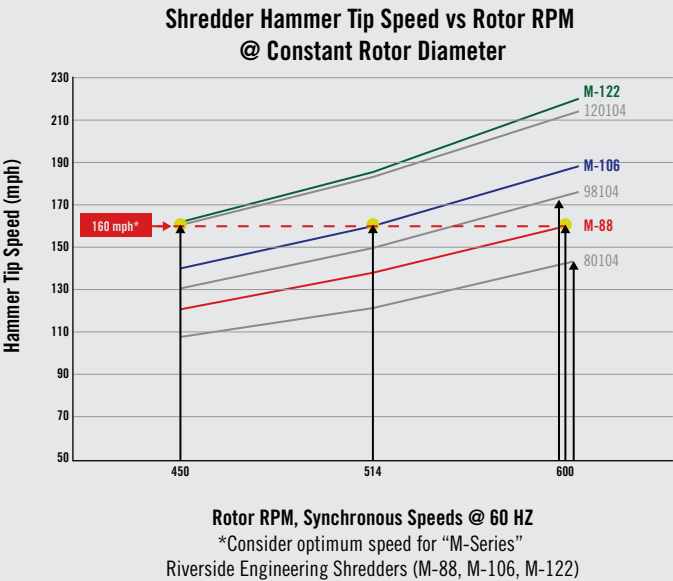




MAKERS OF THE MEGASHREDDER®

	NEXT 6280	NEXT 7400	M-88	M-106	M-122
Power Range (HP)	1,125 hp	2,100 to 2,500 hp	3,000 to 5,000 hp	4,000 to 7,000 hp	5,000 to 9,000 hp
Production Ratings: Tons per Hour (TPH) per Month (TPM) & HP per Ton per Hour	15 TPH	40 to 60 TPH	100 to 165 TPH	150 to 250 TPH	185 to 400 TPH
	1,000 to 3,000 TPM	3,000 to 8,000 TPM	14,000 to 23,000 TPM	21,000 to 35,000 TPM	26,000 to 55,000 TPM
	80 hp/ton	50 hp/ton	30 hp/ton	28 hp/ton	25 hp/ton
Suitable Applications	Loose Tin, White Goods, Cast Iron & Non-Ferrous	Plus Logged Scrap, Light Structural & Autos	Plus Baled Scrap, Rebar, Plant & Farm Equipment, Axles & Structural	Plus Heavy Bales, Heavy Axles & Heavy Structural	Suitable for previous scrap, processed with more efficiency and less cost

HIGHER EFFICIENCY



HOW OUR ENGINEERS HAVE ACHIEVED HIGHER EFFICIENCY

Shredder Chamber	20 significant engineering changes to the shredder chamber to more efficiently shred and eject shredded material with the goal of "lowest cost per ton"
Hammer	Resized all models to achieve an optimum hammer speed of 160 mph nominal
Grate	Incorporated our new "HiPass" grate design
Grate Circle	Grate circle expanded to 225 degrees with repositioned grate holes, providing optimum attack angle for maximum throughput
Feed Ramp	Eliminated feed ramp bottleneck by widening shredder to 112 inches
Rotor	Maximized rotor inertia
Loading	Increased loading at "saturation"

LOWER COST

Riverside Engineering Shredder Performance and Wear Parts Life Expectancy

Shredder Size Motor HP Range	60104 1,000 – 3,000	M-69 1,000 – 3,000	80104 SHD 1,500 – 4,000	M-88 3,000 – 5,000	98104 SHD 3,000 – 6,000	M-106 4,000 – 7,000	120104 4,000 – 7,000	M-122 5,000 – 10,000
Production Rates, FE output tons at 80 to 90 lb/ft³								
Tons per hour (at full HP)	15 to 45	20 to 60	25 to 75	100 to 165	65 to 135	150 to 250	110 to 225	185 to 400
Tons per Month (160 production hours)	2400 to 7200	2800 to 8200	4000 to 12000	14000 to 23000	10400 to 21600	21000 to 35000	17600 to 36000	26000 to 55000
HP per Ton per Hour	65	50	53	30	44	28	31	25
Wear Parts Life Expectancy								
Hammers	2,500	4,000	3,000	4,500	5,000	8,000	10,000	14,000
Spider Caps	20,000	35,000	25,000	40,000	35,000	55,000	50,000	85,000
Bottom Grates	30,000	70,000	40,000	75,000	50,000	100,000	80,000	150,000
Anvils — Lower	30,000	70,000	40,000	75,000	50,000	125,000	60,000	200,000
Anvils — Upper	40,000	70,000	50,000	75,000	50,000	100,000	250,000	350,000
Front Wall Castings	40,000	70,000	50,000	75,000	50,000	100,000	250,000	350,000
Back Wall	30,000	70,000	50,000	75,000	50,000	100,000	100,000	250,000
Sideliners	60,000	175,000	80,000	200,000	100,000	300,000	450,000	750,000
Reject Door	100,000	175,000	150,000	200,000	150,000	300,000	500,000	750,000
Top Grate	150,000	175,000	150,000	200,000	150,000	300,000	500,000	750,000
Entry Floor Liners	40,000	150,000	50,000	150,000	50,000	250,000	100,000	500,000

HOW OUR ENGINEERS HAVE EASED MAINTENANCE

Opening	Shredder can be opened without raising DFR
Castings	Overhead pin-held castings – all models
Yoke	Significantly strengthened DFR yoke
Grates	Easily remove and reinstall grates-allows for reuse of partially worn grates
Anvil	Anvil removal system fabricated into anvil seat
End Disc	Dramatically reduced end disc wear
Spider Caps	Spider caps utilize two-pin retainer system
Stub Shafts	Replaceable lower feed roll stub shafts
Water Injection	High efficiency water injection system



B-p26

SHAFT, 1045 Ø7-1/2" STOCK, MACHINE
SCALE 1/8
2 REQ'D

SECTION A-A
SCALE 1/4

B-p27

SHAFT, 1045 Ø4-1/2" STOCK, MACHINE
SCALE 1/8
2 REQ'D

SECTION A-A
SCALE 1/8

B-t10

Ø7.00 O.D. x 1/2" WALL x 7.00 I.D., SAW CUT
SCALE 1/8
1 REQ'D

SECTION A-A
SCALE 1/8

B-t11
TUBING, DOM 5.00 O.D. x 3/8" WALL x 4.25 I.D., SAW CUT
SCALE 1/8
1 REQ'D

ASSEMBLY B-03 TAIL P
B-s01 & B-s02 AS SHOWN
B-02 AND BALANCE AT

Ø17/32 DR. THRU
ON Ø4.625 B.C. EQ. SP.
AS SHOWN

0.06 X 45°
2 PLCS.

1.00

0.50

0.06 X 30°
2 PLCS.

R0.09-2 PLCS.

SECTION A-A
SCALE 1/4

B-s01

SHAFT, 1045 Ø5-15/16" STOCK, MACHINE
ON-DRIVEN STUB SHAFT FOR Ø2-7/16" BRG
SCALE 1/4
1 REQ'D



Riverside Engineering

Makers of the MEGASHREDDER®

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Ø4.502^{+0.002}_{-0.000}
2 PLCS.

Ø29/64 DR. THRU
1/2-20 UNE TAP THRU
ON Ø5.375 B.C. EQ. SP.
AS SHOWN-2 PLCS.

PL 1/2" A36

SEE P. 2