

# Megashredders®

Complete Line of Shredders for Big and Small Yards



**Riverside Engineering**

Refining Scrap Metal Recycling

**866.764.7567**

**[megashredder.com](http://megashredder.com)**

A photograph of a man in a white hard hat and a high-visibility yellow safety vest with the Riverside Engineering logo on the back. He is walking away from the camera on a dirt ground in an industrial setting. In the background, there are various pieces of machinery, including a large metal tank with 'OXYGEN' written on it, and a metal cage structure. The scene is brightly lit, suggesting a sunny day.

*“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**

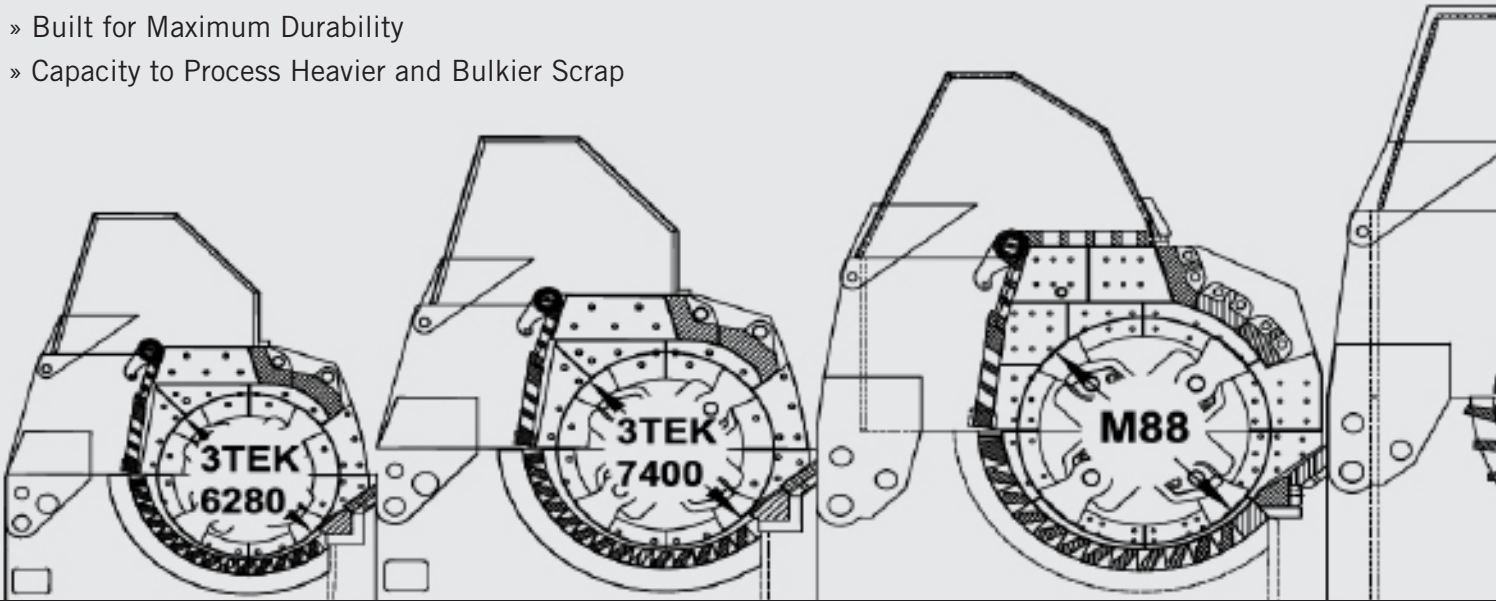
**SHREDDER DRIVE**

AUTOMATED CONTROLS,  
MAXIMIZING SHREDDER DRIVE  
MOTOR UTILIZATION

# MEGASHREDDER® ENGINEERING IN ALL PRODUCTION SIZES

## Engineering Design Goals

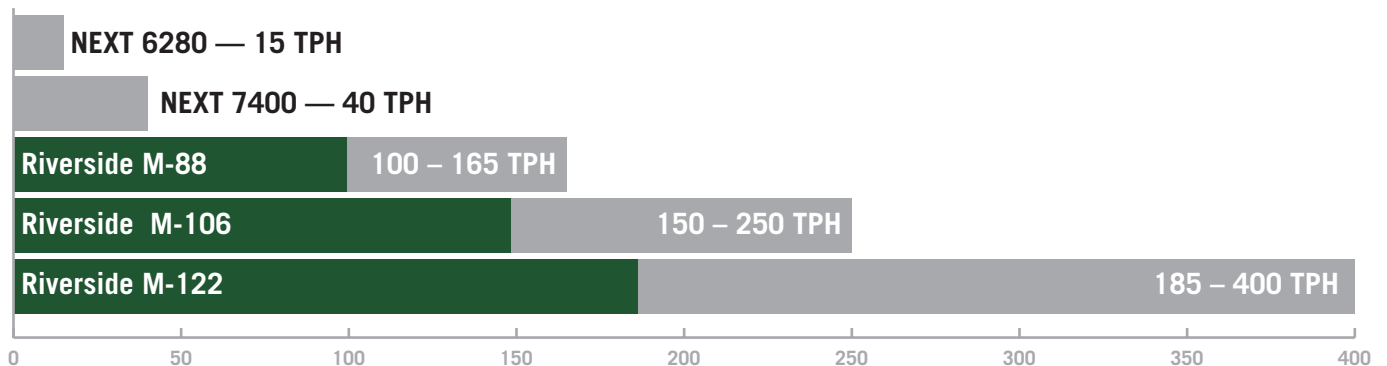
- » Increase Shredder Efficiency
- » Highest throughput per HP in Industry
- » Easier, Safer Operation and Maintenance
- » Built for Maximum Durability
- » Capacity to Process Heavier and Bulkier Scrap

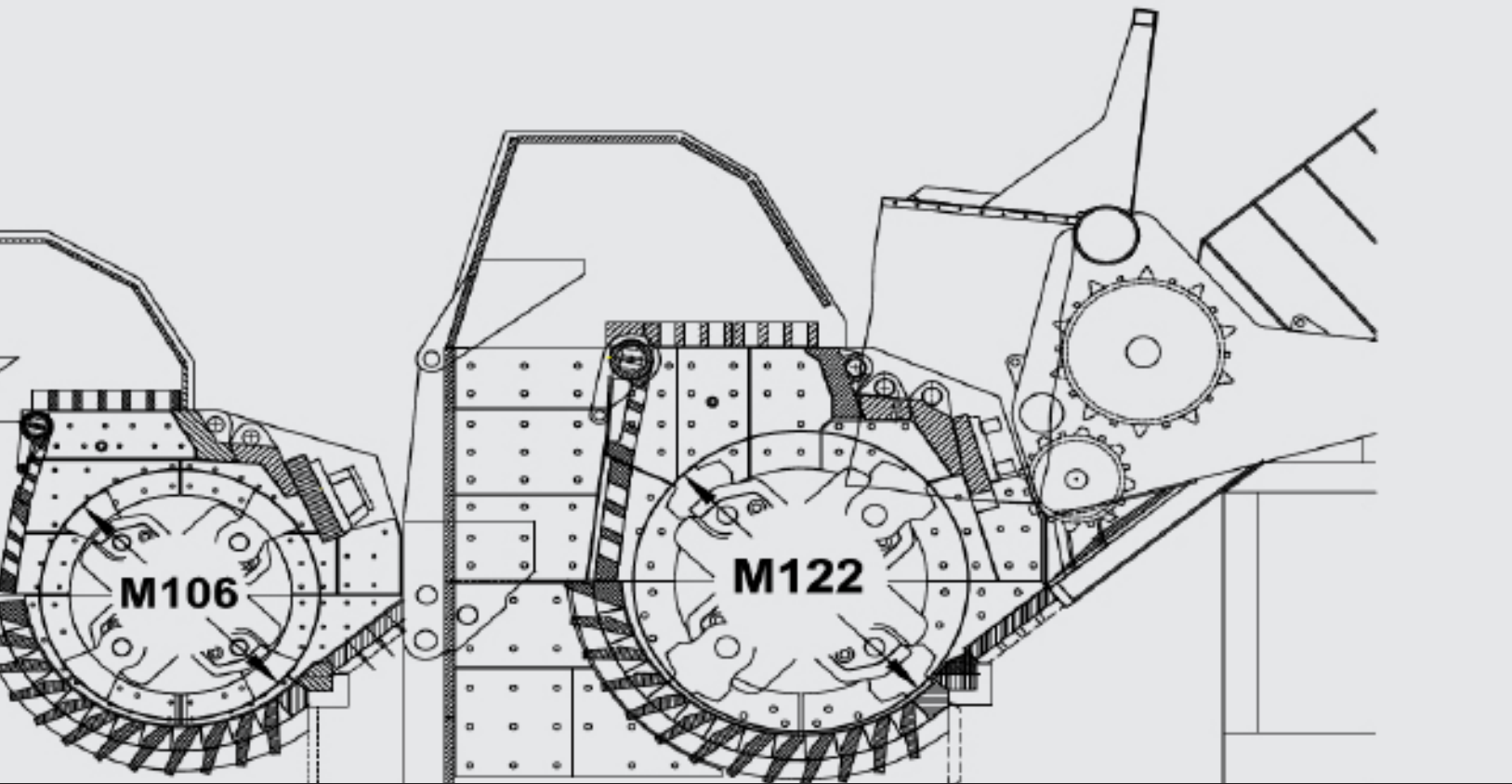


## HAMMER WEIGHT | DISK ROTOR

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

## THROUGHPUT

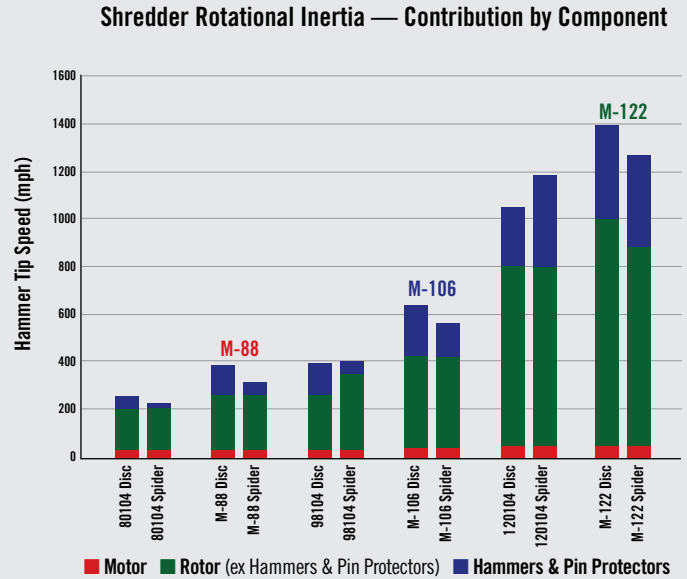
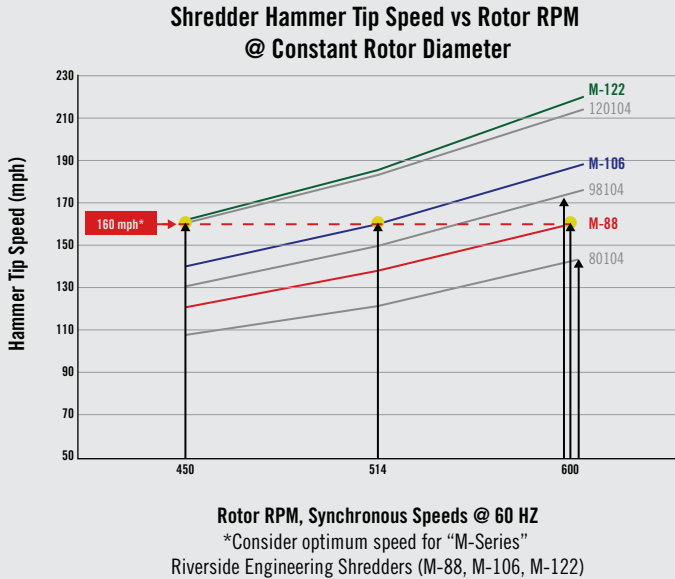




## MAKERS OF THE MEGASHREDDER®

	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)	15 TPH	40 to 60 TPH	100 to 165 TPH	150 to 250 TPH	185 to 400 TPH
per Month (TPM)	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
& HP per Ton per Hour	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

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

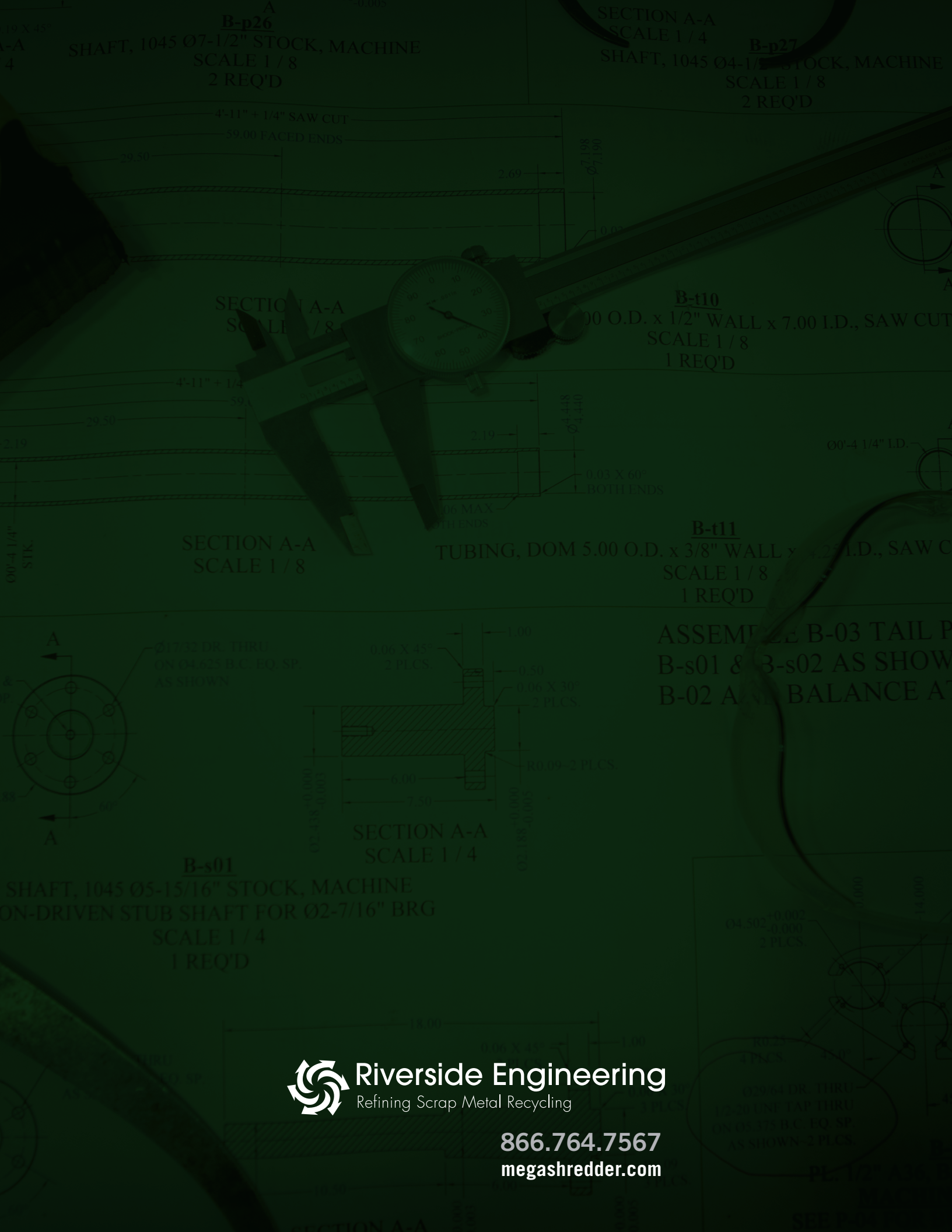
## LOWER COST

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

## HOW OUR ENGINEERS HAVE EASED MAINTENANCE

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

Ø6.00 O.D. x 1/2" WALL x 7.00 L.D., SAW CUT  
SCALE 1/8  
1 REQ'D

SECTION A-A  
SCALE 1/8

TUBING, DOM 5.00 O.D. x 3/8" WALL x 7.25 L.D., SAW CUT  
SCALE 1/8  
1 REQ'D

**B-t11**

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



Ø1.75 DR. THRU  
ON Ø4.625 H.C. TO 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



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