

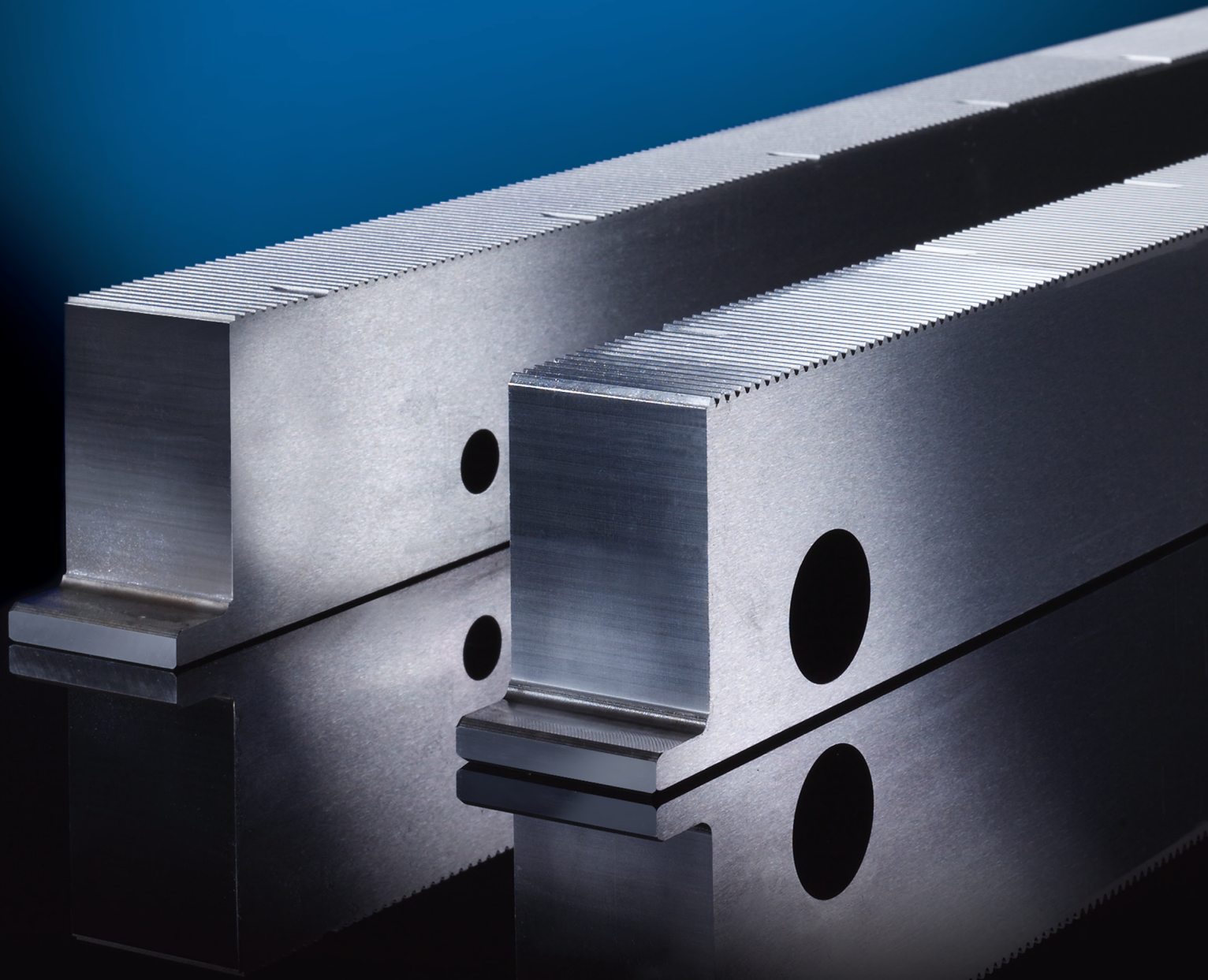


Vol 2

High Quality Dies for High Volume Production

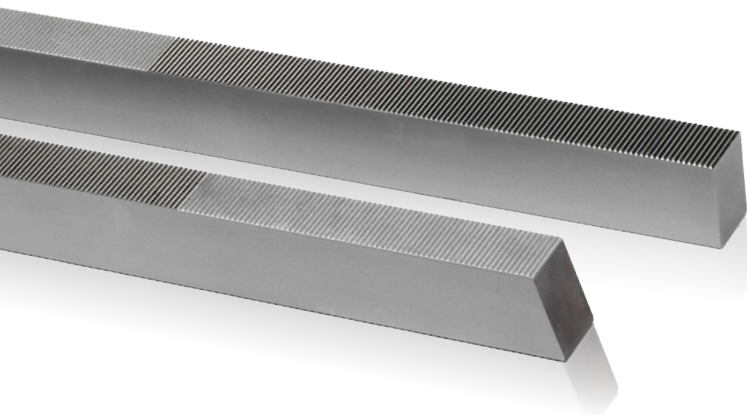
# Rack Dies

OSG EXO-M



# Rack Dies

High Quality EXO-M® Steel Dies for High Volume Production



## Have you tried OSG's Rack Dies?

OSG's Rack Dies are made of the highest quality steel (EXO-M®) and the most modern engineering design to help customers optimize cutting processes.

Our Rack Dies are designed to eliminate the machine adjustment often required in die set up. Simple die set up installation guarantees the perfect work piece, reduces set up time and eliminates questionable parts. With the addition of the OSG patented surface treatment, surface hardness is increased, thereby reducing abrasive wear and chipping significantly.

OSG's Rack Dies will guarantee to perform to your challenge. Our new manufacturing facility in Parma, Ohio assures you not only the highest quality, but also the best price and delivery.

Part	Work Spec	Die Size		Approx. Tool Life (Pos/Set)	
		Length	Width	D2	EXO-M
Starter Pinion Gear	14xZ10xm1.2xPA30xRH20.4	16	1.18	120,000	-
	17xZ8xm1.75xPA25xRH23	24	1.18	-	300,000
Wiper Worm	LH 7.5xZ1xm0.85xPA20	24	1.38	100,000	-
Alternator Shaft	11.5xZ30xm0.35xPA35	16	1.18	100,000	250,000
Speedmeter Worm	31.5XZ6Xm1.0XPA20	36	1.575	30,000	110,000
Steering Pinion Gear	19XZ6Xm2XPA20XLH30	24	1.772	-	70,000
	21.5XZ16Xm1.25XPA30	36	1.181	-	200,000
Transmission Shaft	30XZ28Xm1.0XPA37.5	24	1.181	140,000	-
	30XZ27XDP24/48XPA30	48	4.5	-	60,000
Crank Shaft	50.5xZ43xm1.0xPA30xRH30	36	2	-	200,000
	18XZ22Xm0.75XPA20	24	1	-	20,000
Drive Shaft	24XZ22Xm1.0XPA20	24	2	20,000	64,000
	20XZ18Xm1.0XPA20	24	4.725	10,000	25,000
Uniform Coupling	28.5XZ26XDP24/48XPA45	24	2.362	-	78,000
	21XZ20Xm1.0XPA45	24	1.575	62,000	-

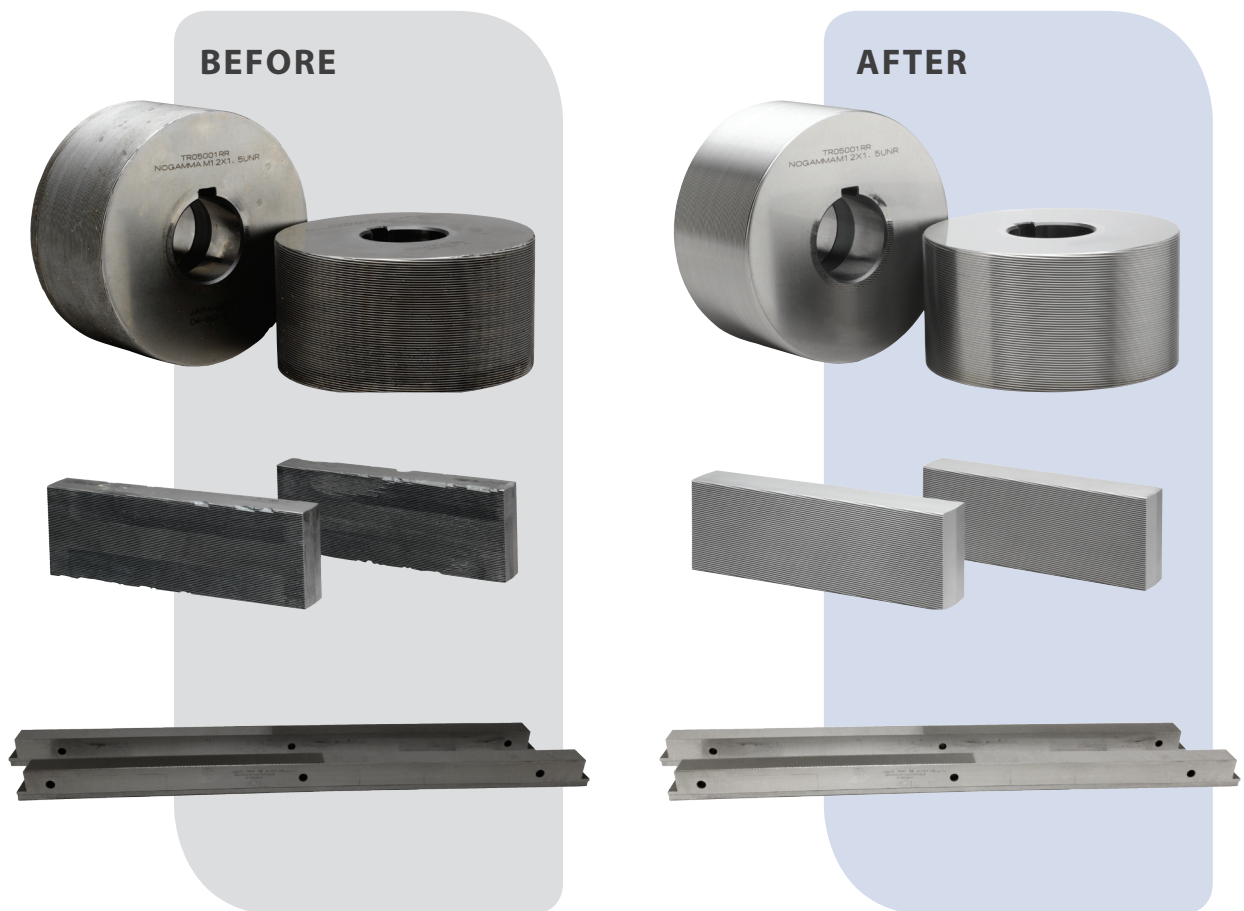


## Reconditioning Service

OSG offers a die reconditioning service in the Parma, Ohio manufacturing facility. Utilization of this program can lead to significant cost savings over the cost of purchasing new tooling. Flat dies, cylindrical dies and rack dies can be reconditioned.

Flat dies are either reground by removing minimal material on the die thickness or reground to customer specification. Cylindrical dies are reground to the next suitable diameter for the requested pitch. Rack dies are reconditioned by removing the existing form profile and then grinding a new profile. After grinding, a shim plate is attached to the rack to bring it into new rack dimensions.

Upon receipt of dies for reconditioning, OSG performs a full inspection to ensure that the dies are suitable for regrinding. If they are not suitable for regrind, they will be returned to the customer.

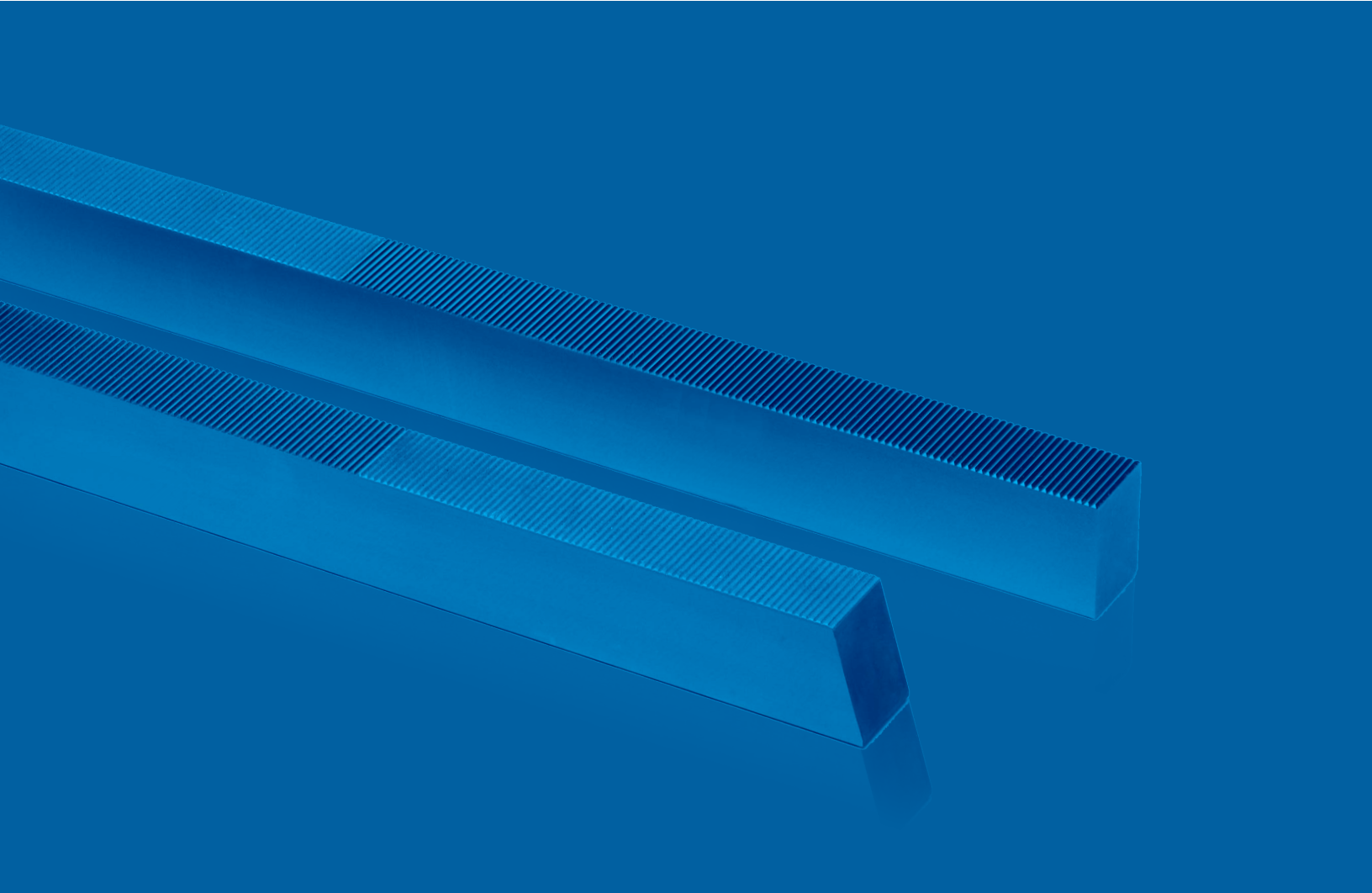


### OSG RECONDITIONING SERVICE BENEFITS

- **Cost Savings** - Regrinding provides significant cost savings over the purchase of new dies.
- **Quality** - Tight tolerances and stringent standards equal to a new die lead to longer tool life.
- **Flexibility** - Reduce/eliminate slow moving inventory by regrinding existing dies to new specs.



*shaping your dreams*



**DIE SALES &  
MANUFACTURING FACILITY**

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***The OSG Difference***

The Parma, OH facility of OSG USA, INC. has served the fastener industry since 1948. We pride ourselves in the superior quality of our products, technical expertise of our staff and business integrity that we provide to our customers.

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