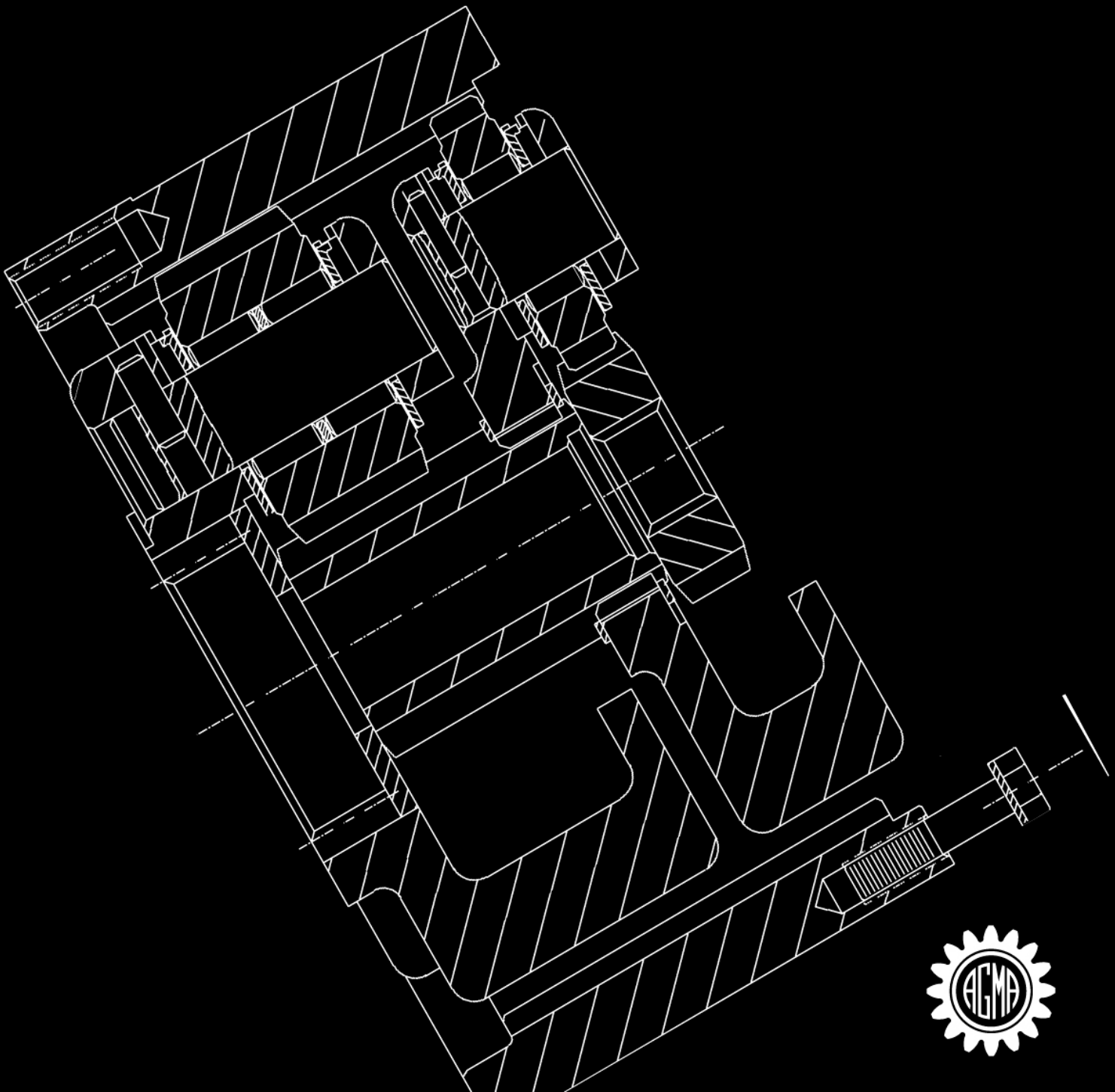
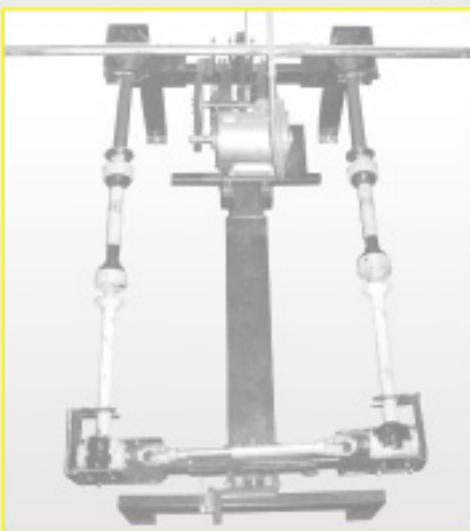
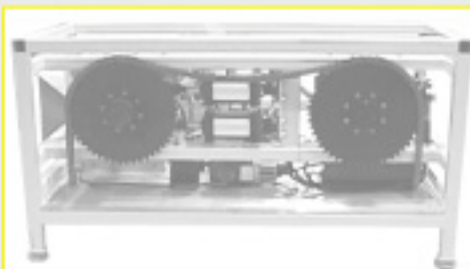
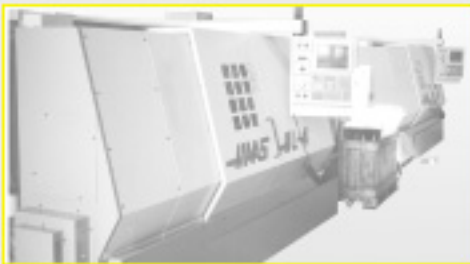




# OMNI GEAR

INDUSTRIAL CLASS  
GEARING





## History

Omni Gear began supplying power transmission equipment for agricultural machinery in 1958. Today, we are a world class manufacturer supplying gear boxes, specialty forgings, and custom gears globally for a variety of industries and applications.

Our mission is to manufacture the highest value power transmission systems for ag & turf, construction and mobile industrial equipment manufacturers.

## Capabilities

Our Shanghai Plant was established in 1994 to service the industrial markets with AGMA class 8-10 gearing in production lots of 50 to 10,000 pieces. It is American owned and American managed. Expatriate leadership extends from the General Manager to, Quality Control, ACAD Design, Manufacturing Engineering and CNC Production. No other Chinese gear manufacturing facility has this level of American leadership combined with modern CNC machining, gear production, inspection and testing equipment.

With 42 years of manufacturing experience in Asia and 20 years in China, Omni Gear has become a recognized leader within the foreign invested industrial community within China providing both product support and technical advice. We have developed an excellent supplier base for precision forgings and castings, gray and ductile iron, chinese and imported alloy steels, deep drawn stainless steel, impact resistant thrust washers and bearings, ISO 12.9 fasteners and other quality hardware.

## Opportunity

The combination of dedicated American expatriate management and modern machine tools with low overhead and labor costs yields world class industrial components at a globally competitive price. Allow us to quote your industrial gearing needs and utilize Omni Gear's globally competitive advantage for your company. The more value we add, the more you will save.



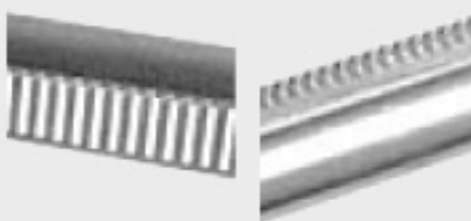
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**Phone: 713-635-6331 □ Fax: 713-635-6360**  
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Omni Gear is capable of producing gears and other parts per your drawings or engineering, designing and manufacturing to meet your application requirements. Customer supplied material can be processed by Omni Gear ranging from cut teeth only to finish complete. Or, Omni Gear can supply material per your requirements with available materials ranging from bronze and aluminum to alloy steel meeting AGMA grade 2 gear material requirements.

Omni Gear strives to improve and expand manufacturing capabilities. We are continually acquiring additional machinery and making advances in our production technology to meet the ever changing market needs. Please contact the Omni Gear Sales Department or your local Omni Gear representatives if your current demands are not covered below.

## Gear Teeth Cutting



## External Involute Spur & Helical Gears

Pitch Diameter:	.....1" to 15"	{25mm to 380mm}
Diametral Pitch	.....24DP to 2DP	{1.0M to 12.7M}
Helix Angle:	.....0° to 45°	-
Face Width:	.....up to 10"	{up to 250mm}
Class*:	.....AGMA 10	{ISO 7}

\*Higher class gearing available with grinding through OMNI GEAR cooperative vendor agreement.

## Internal & Cluster Spur Gears

Pitch Diameter:	.....1.5" to 15"	{37mm to 380mm}
Diametral Pitch	.....24DP to 2DP	{1.0M to 12.7M}
Face Width:	.....up to 6"	{up to 152mm}
Class:	.....AGMA 9	{ISO 8}

## External & Internal Splines

OD:	.....up to 16"	{up to 406mm}
Diametral Pitch	.....24/48DP to 2/4DP	{1.0M to 12.7M}
Face Width:	.....up to 10"	{up to 250mm}
Forms:	.....Involute, Straight sided	
Standards	.....SAE, ISO, JIS, DIN	

## Rack Gears

Diametral Pitch	.....24DP to 2DP	{1.0M to 12.7M}
Face Width:	.....1" to 10"	{25mm to 250mm}
Length:	.....1" to 64"	{25mm to 1.5 meters}
Class:	.....AGMA 8	{ISO 8}

## Machining



## Turning

OD:	.....up to 24" {up to 610mm}
Length:	.....up to 100" {up to 2.5 M}
Rotation:	.....Horizontal
Types:	.....Manual, Automatic, CNC

## Broaching

OD:	.....up to 30" {up to 762mm}
str??:	.....up to 40" {up to 1.4 M}
Power:	.....up to 20 tons

## Milling

Size:	.....20" x 60" {508mm x 1.5M}
Height:	.....up to 30" {up to 762mm}
Types:	.....Manual, CNC

## Grinding

OD:	.....1" to 30" {25mm to 762mm}
ID:	.....1" to 20" {25mm to 508mm}
Length:	.....up to 60" {up to 1.5M}
Types:	.....OD, ID, Surface



**Industrial Class Gearing at Globally Competitive Quality and Pricing**

Omni Gear has a full staff of design engineers to review and evaluate your gearbox application requirements, whether for a new application or for reverse engineering from existing product drawing samples. CAD is used exclusively for all product development and final design. All purchased components, raw materials and out sourced services are strictly controlled by Omni Gear inspection process controls and cooperation agreements resulting in reliable and consistent quality. Gearboxes can be shipped fully assembled, partially assembled, ingroupings for minimum inventory management, or as loose parts as required by our customers.

Omni Gear is continually developing new gearboxes as standard offered products as well as for specific markets and applications. Please contact the Omni Gear Sales Department or your local Omni Gear representative if your current demands are not covered below.

## **Gearbox Assemblies** Planetary Gearboxes - Catalog Units



Output Torque ..... 7,500 in-lb. to 120,000 in-lb. (130Nm to 13,560Nm)  
Ratios: ..... 2.75:1 to 50:1  
Input Speed: ..... up to 5000 RPM  
Output Drive Types: ... Wheel, Hex Shaft, Spindle & Pinion Shaft  
Input Drive Types: ..... SAE, ISO, and NEMA Motor Flanges  
Options Include: ..... Neutral Settings, Wheel Studs, Customer Logo's  
Input Drive Splines: ... SAE 13T, 15T, 14T, 21T & 6B Teeth

## **Planetary Gearboxes - Customer Design**



Using the modular assembly principle of the Omni Gear planetary, customer designed planetary gearboxes can be made as required within the performance ranges of our catalog units. Some examples of customer designed planetary gear drives are: Custom Auger drives, Integral Motor, Brake & Gearbox drives, Quad Reduction Units with a 1000:1 ratio, Right Angle Inputs, Hoist Drives with a Slip Clutch.

In addition, OMNI offers grouped components allowing our customer to conveniently use our planetary components with your components to economically create your own custom planetary gearbox assemblies.

## **Parallel Shaft Gearboxes**



Output Torque ..... 1,000 in-lb. to 150,000 in-lb. (130Nm to 17,000Nm)  
Ratios: ..... 1:1 to 200:1 (Increasing or Reducing)  
Input Speed: ..... up to 5000 RPM  
Input & Output  
Shaft Types: ..... Round, Spline, Pinion, Pinion Flange & Hollow  
Drive Types: ..... SAE & ISO Flanges, AGMA Motor Flanges, Integral Motors  
Options Include: ..... Various Mounting Positions, Multiple Speed Units  
Housing Material

## **Non Geared Assemblies**



Non geared assemblies with rotating elements ranging in weight from 5 lb. to 200 lb. (2.3 kg to 90 kg) may be able to be made by Omni Gear. Please contact the Omni Gear Sales Department or your local Omni Gear representative so we may review your applications.



**Industrial Class Gearing  
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