



2025

MASS GEARS

FOR ENGINEERING INDUSTRIES

COMPANY CATALOG

M A S S

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ABOUT MASS GEAR

MASS GEAR IS A PREMIER METAL FABRICATOR AND GEAR MANUFACTURER LOCATED IN THE 10TH OF RAMADAN CITY, EGYPT. SPECIALIZING IN A WIDE RANGE OF GEARS, MASS GEAR COMBINES CUTTING-EDGE TECHNOLOGY WITH EXPERT CRAFTSMANSHIP TO DELIVER HIGH-QUALITY, PRECISION-ENGINEERED PRODUCTS.

OUR COMMITMENT TO EXCELLENCE AND INNOVATION ENSURES THAT WE MEET THE DIVERSE NEEDS OF OUR CLIENTS ACROSS VARIOUS INDUSTRIES, FROM CEMENT, CERAMIC, FMCG AND HEAVY MACHINERY. AT MASS GEAR, WE PRIDE OURSELVES ON OUR ABILITY TO PROVIDE RELIABLE AND EFFICIENT SOLUTIONS AND PRODUCTS THAT DRIVE SUCCESS AND ENHANCE PERFORMANCE FOR OUR CLIENTS.

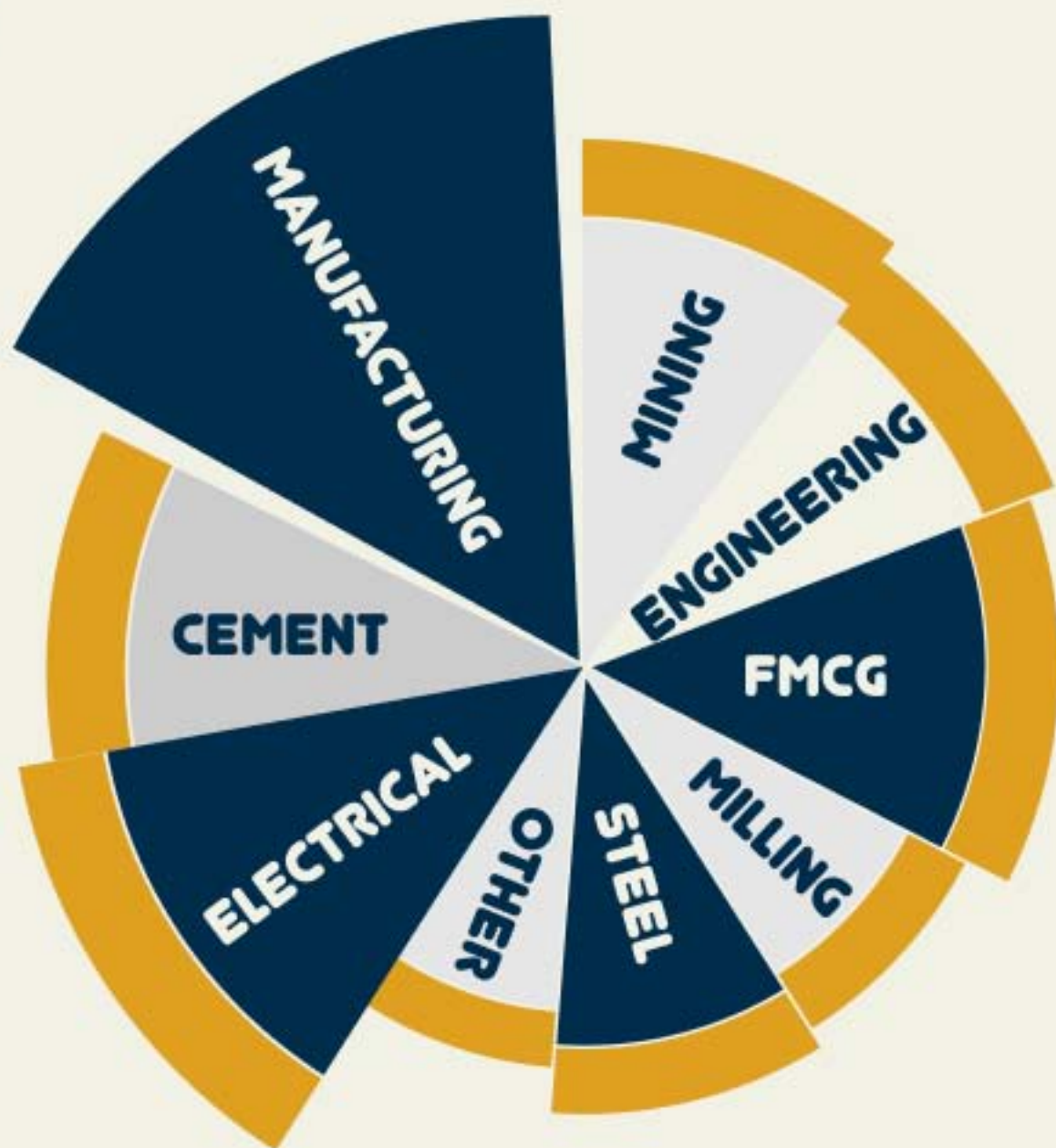


ABOUT MASS GEAR

MASS GEAR EXCELS IN THE ART OF LATHING, A CRITICAL PROCESS IN METAL FABRICATION AND GEAR MANUFACTURING. OUR STATE-OF-THE-ART LATHING EQUIPMENT AND SKILLED TECHNICIANS ENSURE PRECISION AND EFFICIENCY IN EVERY PROJECT. WE SPECIALIZE IN PRODUCING HIGH-QUALITY, CUSTOM-MADE GEARS THAT MEET THE EXACT SPECIFICATIONS OF OUR CLIENTS. OUR LATHING CAPABILITIES ALLOW US TO HANDLE A WIDE RANGE OF MATERIALS, INCLUDING STEEL, ALUMINUM, AND BRASS, ENSURING VERSATILITY AND ADAPTABILITY TO VARIOUS INDUSTRY NEEDS. OUR LATHING PROCESS IS METICULOUSLY CONTROLLED TO ACHIEVE THE HIGHEST STANDARDS OF ACCURACY AND SURFACE FINISH. WE UTILIZE ADVANCED LATHES WHICH PROVIDE UNPARALLELED PRECISION AND REPEATABILITY. THIS TECHNOLOGY ENABLES US TO PRODUCE COMPLEX GEOMETRIES AND INTRICATE DESIGNS WITH EASE, ENSURING THAT EACH GEAR WE MANUFACTURE PERFORMS OPTIMALLY IN ITS INTENDED APPLICATION.



INDUSTRIES WE SERVE



PART OF OUR CLIENTS





P R O D U C T S

GEARS MANUFACTURING

AT MASS GEAR, WE TAKE PRIDE IN THE GEARS MANUFACTURING OF AN EXTENSIVE RANGE OF GEARS AND MECHANICAL PARTS DESIGNED TO MEET DIVERSE INDUSTRIAL NEEDS. FROM SPUR AND HELICAL GEARS TO PLANETARY, SPROCKET, RACK AND PINION, WORM, AND SEGMENTED GEARS, OUR ADVANCED PRODUCTION PROCESSES ENSURE THAT EACH GEAR IS CRAFTED WITH THE HIGHEST STANDARDS OF ACCURACY AND QUALITY.

UTILIZING STATE-OF-THE-ART MACHINERY, WE METICULOUSLY MACHINE EACH GEAR TO ACHIEVE THE DESIRED TOOTH PROFILE AND DIMENSIONS. OUR COMMITMENT TO USING HIGH-QUALITY RAW MATERIALS, COMBINED WITH RIGOROUS QUALITY CONTROL CHECKS, GUARANTEES THAT OUR GEARS DELIVER EXCEPTIONAL PERFORMANCE, DURABILITY, AND RELIABILITY. WHETHER FOR AUTOMOTIVE, AEROSPACE, OR HEAVY MACHINERY APPLICATIONS, OUR GEARS ARE ENGINEERED TO SEAMLESSLY INTEGRATE INTO YOUR MECHANICAL SYSTEMS, PROVIDING SMOOTH AND EFFICIENT OPERATION.

PRECISION GEARS

PRECISION GEARS ARE CUSTOM-MADE ACTUATORS DESIGNED FOR VARYING USES AND APPLICATIONS. THESE GEARS ARE GENERALLY USED IN APPLICATIONS UNDER CONDITIONS OF HIGH AND LOW TORQUE. PRECISION GEARS ARE GENERALLY PREFERRED FOR THEIR PRECISE, SMOOTH, COMPACT, LIGHT, AND RELIABLE PERFORMANCE. PRECISION GEARS CAN BE MANUFACTURED AS PER THE CUSTOMER'S DRAWINGS OR BASED ON A FUNCTIONAL DESCRIPTION DEPENDING ON THE TYPE OF APPLICATION.

THE DIFFERENT TYPES OF PRECISION GEAR PRODUCTS INCLUDE: SPUR GEARS, HELICAL GEARS, WORM GEARS, ANTI-BACKLASH GEARS, CLUSTER GEARS, CLUTCH GEARS, FACE GEARS, PLANETARY GEARS, GEAR ASSEMBLIES, GEARBOXES, BEVEL GEARS, INTERNAL GEARS, IDLER GEARS, GEAR RACK & PINION, WORMS, WORM SHAFTS, METRIC GEARS, SHAFTS, SPLINES, SPLINE SHAFTS, AND MORE.


BEVEL GEARS

AT MASS GEAR, WE SPECIALIZE IN MANUFACTURING A WIDE RANGE OF BEVEL GEARS, INCLUDING STRAIGHT, SPIRAL, AND HYPOID BEVEL GEARS, EACH TAILORED FOR SPECIFIC APPLICATIONS. STRAIGHT BEVEL GEARS FEATURE TEETH THAT ARE CUT STRAIGHT AND PARALLEL TO THE GEAR AXIS, OFFERING SIMPLICITY AND EFFICIENCY IN POWER TRANSMISSION AT RIGHT ANGLES.



STRAIGHT BEVEL GEARS





SPIRAL BEVEL GEARS, ON THE OTHER HAND, HAVE CURVED TEETH THAT PROVIDE SMOOTHER ENGAGEMENT, REDUCING NOISE AND VIBRATION, AND ARE IDEAL FOR HIGHER TORQUE APPLICATIONS. EACH TYPE OF GEAR IS METICULOUSLY CRAFTED TO MEET THE PRECISE REQUIREMENTS OF OUR CUSTOMERS, ENSURING OPTIMAL PERFORMANCE IN VARIOUS INDUSTRIAL SECTORS SUCH AS CEMENT, MINING, MILLING, AND HEAVY MACHINERY. MASS GEAR'S EXPERTISE IN THESE SPECIALIZED GEAR TYPES GUARANTEES THAT OUR PRODUCTS MEET THE HIGHEST STANDARDS OF QUALITY AND RELIABILITY.

SPIRAL BEVEL GEARS



SPUR GEARS

OUR SPUR GEAR MANUFACTURING PROCESS IS A TESTAMENT TO OUR COMMITMENT TO PRECISION AND QUALITY. SPUR GEARS, KNOWN FOR THEIR STRAIGHT TEETH AND PARALLEL SHAFT ALIGNMENT, ARE FUNDAMENTAL COMPONENTS IN MANY MECHANICAL SYSTEMS. WE UTILIZE ADVANCED MACHINERY TO ENSURE THAT EACH GEAR IS CRAFTED WITH EXACTING ACCURACY. OUR PROCESS BEGINS WITH THE SELECTION OF HIGH-QUALITY RAW MATERIALS, WHICH ARE THEN METICULOUSLY MACHINED TO ACHIEVE THE DESIRED TOOTH PROFILE AND DIMENSIONS.



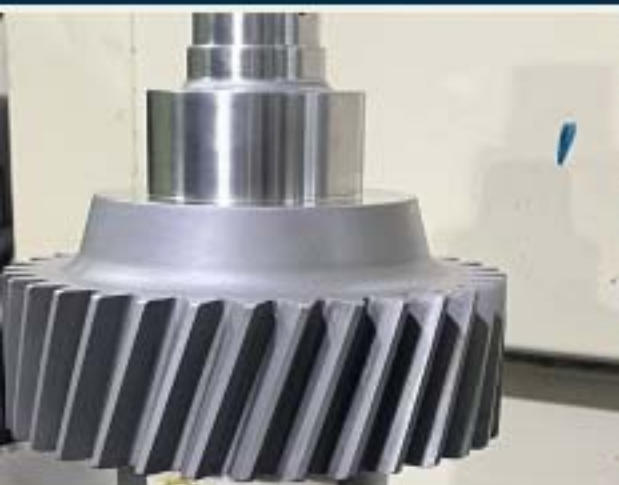
EPICYCLIC GEARS

OUR PLANETARY GEAR MANUFACTURING PROCESS IS A BLEND OF PRECISION ENGINEERING AND ADVANCED TECHNOLOGY. PLANETARY GEARS, KNOWN FOR THEIR UNIQUE CONFIGURATION OF A CENTRAL SUN GEAR, PLANET GEARS, AND A RING GEAR, ARE ESSENTIAL FOR APPLICATIONS REQUIRING HIGH TORQUE DENSITY AND A COMPACT DESIGN. WE START WITH HIGH-QUALITY RAW MATERIALS TO ENSURE DURABILITY AND PERFORMANCE. EACH GEAR UNDERGOES RIGOROUS QUALITY CONTROL CHECKS TO MEET OUR STRINGENT STANDARDS, PROVIDING RELIABLE AND EFFICIENT SOLUTIONS FOR MECHANICAL SYSTEMS. OUR DEDICATION TO INNOVATION AND EXCELLENCE DRIVES US TO CONTINUOUSLY REFINE OUR MANUFACTURING TECHNIQUES, ENSURING THAT OUR PLANETARY GEARS DELIVER EXCEPTIONAL PERFORMANCE AND LONGEVITY.





HELICAL GEARS





HERRINGBONE GEARS



WORM GEARS

OUR WORM GEAR MANUFACTURING PROCESS COMBINES PRECISION ENGINEERING WITH ADVANCED TECHNOLOGY. RECOGNIZED FOR THEIR SCREW-LIKE DESIGN, WORM GEARS ARE VITAL FOR APPLICATIONS REQUIRING HIGH TORQUE AND SMOOTH, QUIET OPERATION. WE START WITH HIGH-QUALITY RAW MATERIALS, ENSURING DURABILITY AND PERFORMANCE. USING STATE-OF-THE-ART MACHINERY, WE ACHIEVE PRECISE TOOTH PROFILES AND DIMENSIONS, ESSENTIAL FOR OPTIMAL PERFORMANCE. EACH GEAR UNDERGOES STRINGENT QUALITY CONTROL CHECKS TO MEET OUR HIGH STANDARDS, PROVIDING RELIABLE AND EFFICIENT SOLUTIONS FOR MECHANICAL SYSTEMS. OUR DEDICATION TO INNOVATION AND EXCELLENCE DRIVES US TO CONTINUOUSLY REFINE OUR MANUFACTURING TECHNIQUES.



SEGMENT GEARS

SEGMENT GEARS ARE A TYPE OF GEAR DESIGNED WITH A PORTION OR SEGMENT OF A FULL GEAR, OFTEN USED IN LARGE OR HEAVY MACHINERY WHERE FULL CIRCULAR GEARS WOULD BE IMPRACTICAL. OUR MANUFACTURING PROCESS TYPICALLY INVOLVES PRECISION CASTING OR MACHINING, WHERE THE GEAR SEGMENT IS FABRICATED FROM HIGH-STRENGTH MATERIALS LIKE STEEL OR ALLOY TO ENSURE DURABILITY. THESE SEGMENTS ARE THEN CAREFULLY MACHINED TO ENSURE ACCURATE TOOTH PROFILES, FOLLOWED BY HEAT TREATMENT PROCESSES LIKE CARBURIZING OR HARDENING TO IMPROVE WEAR RESISTANCE. SEGMENT GEARS ARE WIDELY USED IN INDUSTRIES SUCH AS MINING, CONSTRUCTION, AND MATERIAL HANDLING, WHERE LARGE, POWERFUL DRIVES ARE NEEDED. THE PRIMARY TYPES OF SEGMENT GEARS INCLUDE BEVEL GEARS [FOR ANGLED POWER TRANSMISSION], HELICAL GEARS [FOR SMOOTH, QUIET OPERATION], AND SPUR GEARS [FOR SIMPLE, EFFICIENT MECHANICAL SYSTEMS]. EACH TYPE IS SELECTED BASED ON THE SPECIFIC REQUIREMENTS OF LOAD, SPEED, AND SPACE CONSTRAINTS WITHIN THE APPLICATION.





RACK AND PINION





MECHANICAL PARTS





SPECIAL GEARS





INTERNAL & EXTERNAL GEARS





STEEL SHAFTS





BUSHINGS, FLANGES





SPROCKET GEARS

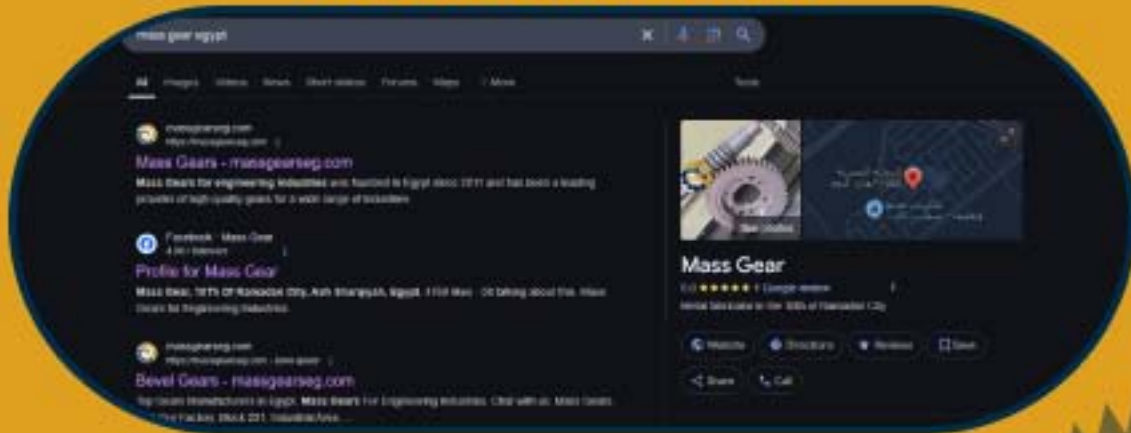




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MASS GEAR DIGITAL

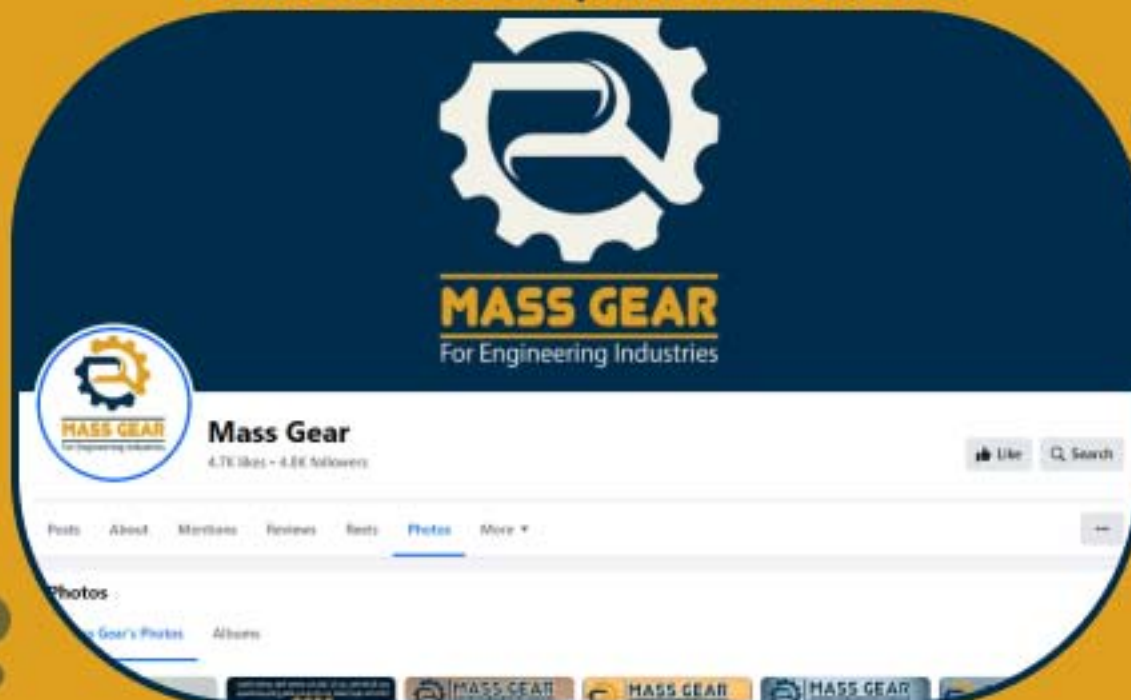
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M A S S

G E A R S

F O R

M A S S

I N D U S T R I E S



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