



PUSHPAK

TRADEMECH LTD



GEARING WITH EXCELLANCE

MANUFACTURING FACILITY FOR ALL TYPE OF BIG GEARS AND PINION SHAFTS
SIMULTANEOUS 5 – AXIS CNC MACHINING FACILITY FOR LARGE SIZED COMPONENTS
CENTRIFUGAL CASTING FACILITY UPTO \varnothing 5 METER RINGS OF NON-FERROUS GRADE MOC.

WE WOULD LIKE TO INTRODUCE “PUSHPAK TRADEMECH LIMITED” WHICH HAS APPEARED A LONG WAY EVER SINCE ITS ESTABLISHMENT IN THE YEAR 1980, AND HAS FIXED A STRONG FOOHOLD IN THE HIGH PRECESSION ENGINEERING SECTOR WITH ITS HIGHLY DECORATED SERVICE AND POLICIES...

PUSHPAK, AN ISO 9001:2015, 1400:2015, 45000:2018 CERTIFIED COMPANY RUNNING ON THE CONCEPT OF “MANUFACTURER OF CHOICE” FROM ITS SOCIO ACTIVIST CONCEPTION AND ETHICAL STANDPOINT...

PUSHPAK, RECOGNIZED AS ONE OF THE MOST EMINENT MANUFACTURE AND SERVICE PROVIDER OF HIGHLY PRECISE ENGINEERING COMPONENTS FOR MEDIUM TO LARGE INDUSTRIAL APPLICATIONS INTO THE AEROSPACE – DEFENCE – SPACE APPLICATION – ENGINEERING SECTORS WHERE PUSHPAK IS COMMITTED TO DELIVER ITS EXCELLENCE BY BACKING WITH HIGHLY ADVANCED TECHNOLOGIES WITH MAGNANIMOUS SUPPORT OF OUR WELL-EXPERTISE TEAM & MOST ICONIC CLIENTELES...

PUSHPAK, HAVING AMPLE INFRASTRUCTURE TO DESIGN, MACHINE AND DELIVERY WITH ADVANCE LEVEL QUALITY CHECK ASPECTS...WITH LARGE SIZE GANTRY MOVING CNC MACHINING CENTRES AND ADVANCED QUALITY CONTROL EQUIPMENTS...

PUSHPAK, OPTIMUM FEASIBILITIES TO MACHINING HIGH RESILIENT METAL APPLICATIONS OF “TITANIUM, INCONEL, ARMOUR STEEL, DUPLEX STEEL, ALUMINIUM, COPPER, BRONZE, AND NICKLE” AND ULTIMATE IMPORTANTANTLY “COMPOSITES” LIKE CARBON FIBRE (CFRP), GLASS FIBRE (GFRP)..., CERAMIC TILE...

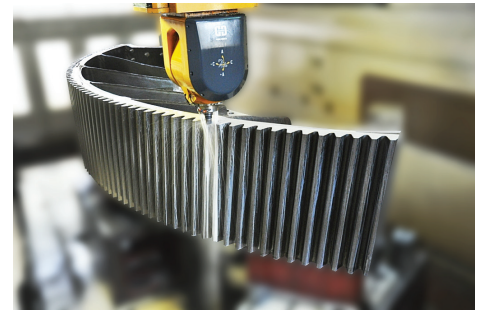
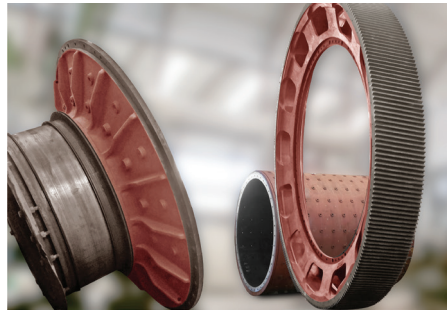
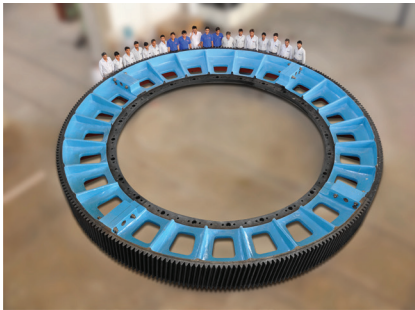
WE ARE THE PUSHPAK, HUMBLY WELCOMING ALL OF YOU FOR EXPLORING OUR SIGNIFICANT WORK WITH HAVING FULL FAITH IN AN IDEOLOGY “LETS GET TOGETHER, WE WILL MAKE IT HAPPEN...”



GIRTH GEARS, ALSO KNOWN AS RING GEARS, ARE LARGE DIAMETER GEARS THAT ENCIRCLE THE CIRCUMFERENCE OF HEAVY INDUSTRIAL MILL TYPE MACHINES. GIRTH GEAR TYPICALLY WORKING IN CONJUNCTION WITH LARGE PINION GEARS. DUE TO THEIR SIGNIFICANT SIZE AND THE HIGH FORCES INVOLVED, GIRTH GEARS ARE ENGINEERED TO HANDLE EXTREME LOADS, OFTEN OPERATING IN HARSH CONDITIONS AND MAINLY IN APPLICATIONS AT CEMENT PLANTS / MINING PLANTS / GIRTH GEARS ARE ENGINEERED IN LARGE ROTATING EQUIPMENT LIKE MILLS, KILNS, AND CRUSHERS...

KEY FEATURES

- LARGE DIAMETER, PUSHPAK CAN ATTAIN THE GEAR UP TO 30 METERS DIA...
- HIGH PRECISION MACHINING & GEAR CUTTING ON 5-AXIS CNC MACHINE.
- UNIQUE SEGMENTED DESIGN CAN LEADS TO CUSTOMIZABLE INTERCHANGEABILITY.
- SINGLE SET-UP MACHINING PROCESS FOR ALL OPERATION LIKE TOOTH CUTTING / FACING / BORING / DRILLING / CHAMFERRING / ID MACHINING / MOUNTING HOLE DRILLING.
- HELIX FACE JOINT MACHINING IN SEGMENT INSTEAD OF TOOTH INTERSECTION CUT IN HELICAL GIRTH GEAR...



WORM GEARS AND MULTI START WORM SHAFTS

PUSHPAK'S HIGH RELIABLE WORM GEARS & MULTI START WORM SHAFTS ARE TO OPERATE AND TRANSMIT THE HEAVY INDUSTRIAL MACHINES SUCH AS COAL MILL VERTICAL PULVERISERS. WORM GEAR DRIVE SYSTEMS ARE DESIGNED TO TRANSMIT HIGH TORQUE RELATIVE TO THEIR SIZE, MAKING THEM IDEAL FOR HEAVY-DUTY APPLICATIONS AND SPECIALLY THE RIGHT-ANGLE CONFIGURATION, LESS NOISY OPERATION / MINIMUM MAINTENANCE / NON-FERROUS METALLURGY ALLOWS WORM GEARS TO BE THE IDEAL SOLUTIONS FOR VARIOUS INDUSTRIES...

KEY FEATURES

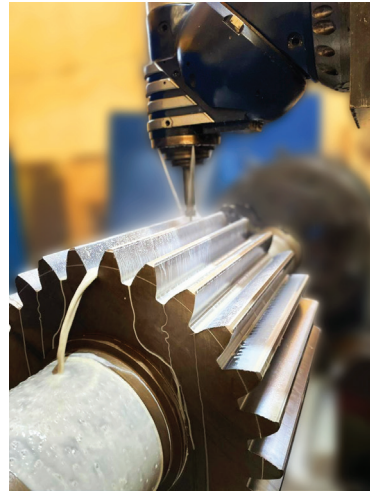
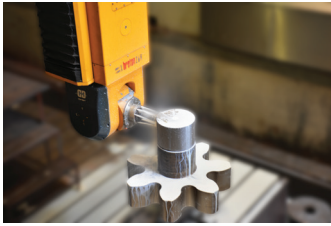
- CAPABILITIES TO MANUFACTURE WORM GEARS UP TO 5 METERS DIAMETER.
- HIGH PRECISION MACHINING & TOOTH CUTTING ON CNC MACHINE.
- CUTTING EDGE MANUFACTURING SOLUTION OF MULTI START WORM SHAFT ON 4-AXIS CNC MACHINE.
- INHOUSE CENTRIFUGAL CASTING FACILITY UP TO 5 METER RINGS OF NON-FERROUS GRADE MOC.
- CAPACITY TO MANUFACTURE AND SUPPLY MORE THAN 100 SETS OF WORM GEAR AND WORM SHAFT FOR 27" / 36" / 41" / 48" / 54" CENTER DISTANCE COAL PULVERISER MILLS IN (XRP / XRS / HP TYPE 563, 603, 623, 763, 783, 803, 883, 903, 963 MILLS GEAR BOX FOR 110/120/210/220/500/800 MW THERMAL POWER PLANT).



SPUR GEARS / HELICAL GEARS

KEY FEATURES

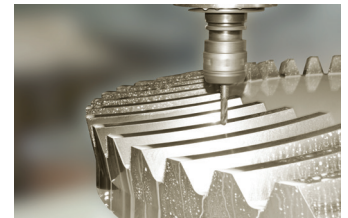
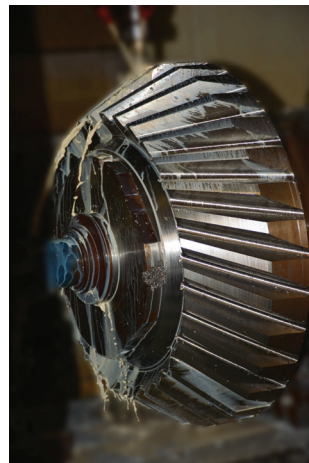
- FACILITATE THE SPUR / HELICAL LOOSE GEARS AND PINION WITH SHAFTS UPTO 7000MM DIAMETER IN SINGLE PIECE WITH FACE LENGTHS UPTO 2500mm...
- HIGH PRECISION MACHINING & TOOTH CUTTING ON CNC MACHINE.
- CAPABILITIES TO MACHINING / CUT THE ANY MODULE UPTO 150 IN ANY DIAMETER, NO STANDARDIZED LIMITATION LIKE CONVENTIONAL GEAR CUTTING MACHINE...
- QUALITY CLASS ACCORDING TO INTERNATION STANDARDS LIKE (DIN / AGMA)
- FEASIBILITY TO MFG. & SUPPLY THE CUSTOMISED LARGE GEARBOX AS PER CLIENT'S REQUIREMENTS.



BEVEL GEARS (SPIRAL / HELICAL / SPUR)

KEY FEATURES

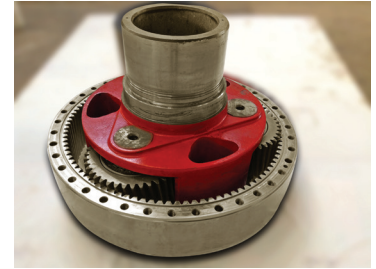
- CAPABILITIES TO MANUFACTURE BEVEL GEARS AN PINIONS WEATHER IN ANY TYPES OF IT (SPIRAL / SPUR / HELICAL) UPTO 7000MM DIAMETER IN SINGLE PIECE WITH FACE LENGTHS UPTO 2500MM...
- HIGH PRECISION MACHINING & TOOTH CUTTING (SPIRAL / HELICAL / SPUR) ON 5-AXIS CNC MACHINE...
- CAPABILITIES TO MACHINING ANY MODULE IN ANY DIAMETER ALONG WITH FINAL LAPPING PROCESS...
- NO STANDARDIZED LIMITATION LIKE CONVENTIONAL BEVEL GEAR CUTTING MACHINE...
- QUALITY CLASS ACCORDING TO INTERNATION STANDARDS
- FEASIBILITY TO MFG. & SUPPLY THE CUSTOMISED LARGE GEARBOX AS PER CLIENT'S REQUIREMENTS...



INTERNAL GEARS / ANULUS RING

KEY FEATURES

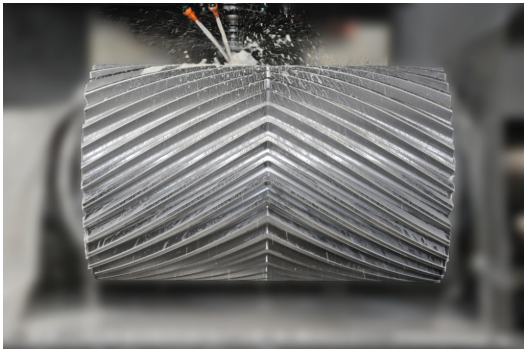
- MANUFACTURE INTERNAL TOOTHED GEARS IN ANY TYPES OF (SPUR / HELICAL) UPTO 7000MM INNER DIAMETER IN SINGLE PIECE WITH FACE LENGTHS UPTO 1000MM...
- HIGH PRECISION MACHINING & INTERNAL TOOTH CUTTING (HELICAL / SPUR) ON 5-AXIS CNC MACHINE, WITH MACHINING CAPABILITIES IN ANY MODULE IN ANY DIAMETER...NO STANDARDIZED LIMITATION LIKE CONVENTIONAL GEAR CUTTING MACHINE...



HERRINGBONE / DOUBLE HELICAL GEARS

KEY FEATURES

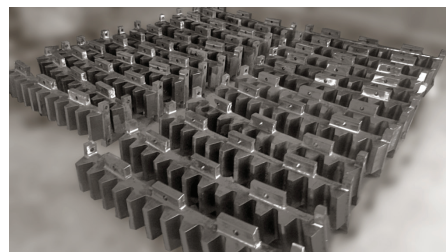
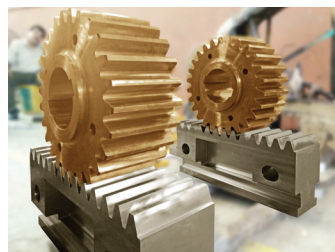
- UNIQUE DESIGN PROVIDES OPERATIONAL ADVANTAGES IN TERMS OF LOAD DISTRIBUTION AND SMOOTH MOTION, MAKING HERRINGBONE GEARS IDEAL FOR HIGH-POWER APPLICATIONS.
- FACILITATE TO MANUFACTURE HERRINGBONE GEARS / DOUBLE HELICAL GEARS UPTO 7000MM DIAMETER IN SINGLE PIECE...
- HIGH PRECISION SINGLE SET-UP MACHINING / TOOTH CUTTING ON 5-AXIS CNC MACHINE...
- CAPABILITIES TO MACHINING ANY MODULE IN ANY DIAMETER...NO STANDARDIZED LIMITATION LIKE CONVENTIONAL GEAR CUTTING MACHINE...



RACK AND PINION GEARS

KEY FEATURES

- CAPABILITIES FOR MANUFACTURING UNLIMITED LENGTH OF RACKS IN SEGMENTED DESIGNS WITH UNPARALLELED PRECISION IN LINIER MOTION SYSTEMS...
- FACILITATE TO MANUFACTURE RACKS UPTO ANY LENGTH UPTO 10000MM IN SINGLE PIECE AND AS PER CUSTOMER'S REQUIREMENTS...
- HIGH PRECISION SINGLE SET-UP MACHINING OF TOOTH CUTTING / RADIUS / MOUNTING JOINTS ON 5-AXIS CNC MACHINE...
- CAPABILITIES TO MACHINING ANY MODULE IN ANY DIAMETER...NO STANDARDIZED LIMITATION LIKE CONVENTIONAL GEAR CUTTING MACHINE.



A LEADING CENTRIFUGAL CASTINGS MANUFACTURER AND SUPPLIER OF SUPREME QUALITY SOUND CASTINGS OF "NON-FERROUS ALLOYS AND SPECIAL GRADE" COMPONENTS WITH THE DECADES OF EXPERIENCE.

FACILITIES

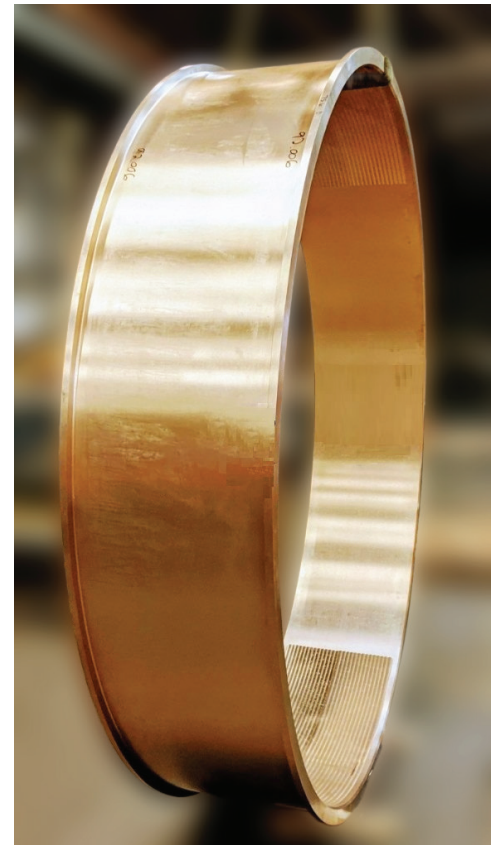
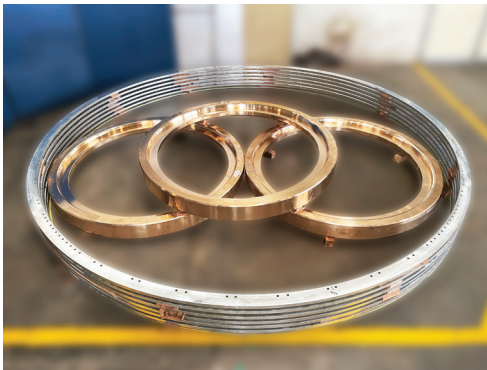
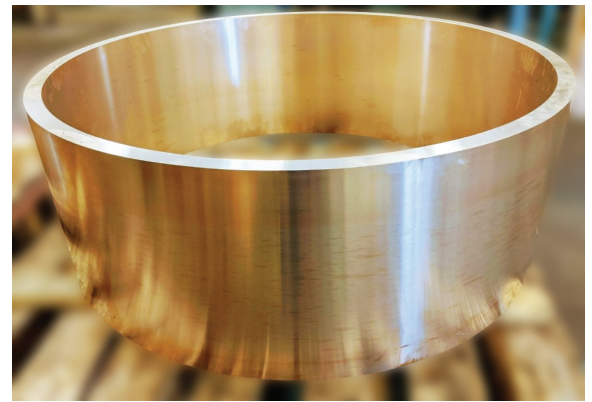
- RESEARCH & DESIGN
- MOLD-MAKING
- FULL-SCALE CASTING
- FINISHED MACHINING
- INSPECTION
- DELIVERY

PRODUCTS

- RINGS
- GEAR BLANKS
- STRAIGHT BUSHINGS
- TAPPER BUSHINGS
- SPLIT BEARING BUSHINGS
- THRUST COLLARS

RANGE

- CENTRIFUGAL CASTING
DONE AT 120G FORCE (MIN.)
- UPTO 5 METER DIA.

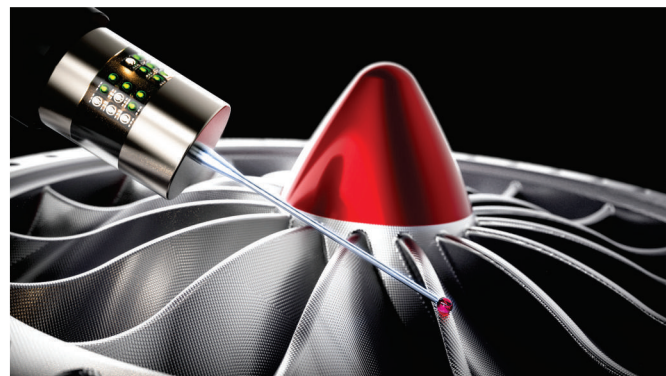
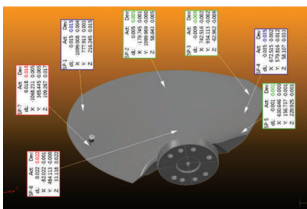


INSPECTION

PUSHPAK'S ADVANCED INSPECTION TECHNOLOGY IS COMPLY WITH THE RENISHAW RMP600, A COMPACT, HIGH ACCURACY TOUCH PROBE WITH RADIO SIGNAL TRANSMISSION, OFFERING ALL THE BENEFITS OF AUTOMATED JOB SET-UP, "OMV" ON MACHINE VERIFICATION TO MEASURE COMPLEX 3D PART GEOMETRIES INBUILT WITH 5-AXIS MACHINE CONTROL. PUSHPAK'S LED PLUS 30 MODELING EXPERTISE WITH WORLDCLASS BLUE LIGHT 30 SCANNER TECHNOLOGY FROM ZEISS STEINBICHLER. DELEVERING EXCELLENT 3D DATA QUALITY AND HIGHLY ACCURATE RESULTS BY EXTREMELY SHORT MEASURING TIME AND NO SIZE LIMITATION OF THE COMPONENTS WITH HIGH QUALITY ASSURANCE.

AREAS OF APPLICATION

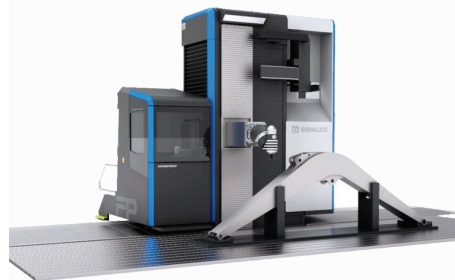
- QUALITY CONTROL/INSPECTION
- MOLD AND TOOL MAKING
- DESIGN
- RAPID MANUFACTURING
- REVERSE ENGINEERING



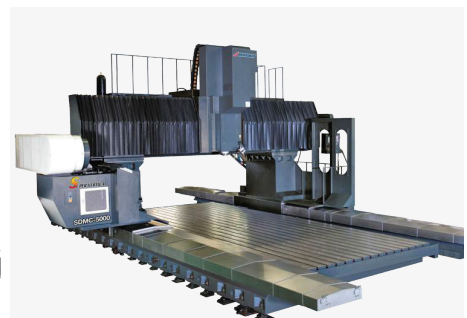
MACHINING FACILITY



'Y' Axis : 8500 MM
'X' Axis : 4000 MM
'Z' Axis : 2500 MM
'A' Axis : (±) 120°
'C' Axis : 360° Continuous



'X' Axis : 6000 MM
'Y' Axis : 3500 MM
'Z' Axis : 1500 MM
5-Axis Universal Head



'X' Axis : 8000 MM
'Y' Axis : 4800 MM
'Z' Axis : 1500 MM
Full Auto Orthogonal Head

VERTICAL MACHINING CENTER

HORIZONTAL MACHINING CENTER

HORIZONTAL LATHE CONVENTIONAL

- Length : Upto 12,000 mm
- Turning Dia. : Upto 2000 mm

VERTICAL LATHE

- Turning Dia. : Ø 7000 mm.

GEAR HOBBER / SHAPPER



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