



PAKISTAN MACHINE TOOL FACTORY

(Product Range, Capabilities, Facilities)



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PAKISTAN MACHINE TOOL FACTORY



Introduction

Pakistan Machine Tool Factory (PMTF) is the leading manufacturer of quality precision engineering goods in Pakistan. PMTF was established in 1968 under the technical collaboration of M/s Oerlikon Bührle of Switzerland. The company is fully owned by the Government of Pakistan and currently, since July 2020, it is controlled through Ministry of Defence Production, Government of Pakistan. The company came into regular production in 1971, started with production of machine tools being the core requirement for providing technological base to the country, and since 1972 the production of hi-tech defence equipment were also inducted in the production line of this engineering organization.

PMTF is spread over an area of 226 acres, including 57 acres of employee residential colony. Presently, around 6500 employees are working with this organization including professional Engineers and technical workers. The Company layout is set by the Swiss engineers and is according to best European Standards. Presently, PMTF is engaged in production of under noted hi-tech products:

- i. Machine Tools (Conventional & CNC type) including Lathes, Milling, Drilings, Hack Saw, CNC Turning and Milling centre, quarrying machinery etc.
- ii. Automotive transmission and Axle parts (Gears, Pinions, shafts etc) for Tractors, Buses, Locomotives.
- iii. Pressure Die cast parts for Gas Meters, Motorcycles.
- iv. Weld Neck Steel Flanges for Oil & Gas Industry.
- v. Defence equipments including battery of Mortars, Rocket launchers, Recoilless rifle, Gun mounts, Sub-caliber Devices for RPG-7 etc.

PMTF has rich experience in designing and manufacturing of precision engineering goods. It has its own training institute where training facilities is being provided to engineering industries for the tailor made short courses technical trainings to support them in meeting their requirement. Also Apprenticeship training is provided to fresh student on regular basis to provide technical manpower to the country.

PMTF installed facilities includes CNC machining centers, CNC Turning Centers, Turning machines, Gear manufacturing machines, well-equipped tool room with facilities like Jig boring, thread grinding, spark erosion, die sinking and copy milling machines etc. Most modern heat treatment shops in particular for automotive transmission and machine tool production, compatible with international standards. Surface treatment facilities, pressure die casting facilities, sheet metal facilities, design centre equipped with Computer Aided Designing and Manufacturing (CAD/CAM) facilities, CNC shops, Electronic lab, facility for metallurgical & chemical laboratories. PMTF has kept on enhancing / modernizing its facilities by adding latest machinery / equipment.

PMTF is a ISO-9001:2015 certified quality standard organization and has a built-in excellent quality culture. PMTF has test labs facilities including Gear testing labs, Electronic labs, material testing labs, metrology Labs with CMM facilities where all production gauges in operation are being regularly checked and controlled to ensure quality culture, to ensure PMTF existing international / European quality standards.

Recoilless Rifle 106 MM

Comprising

- » Ordnance 106 mm assy (M-40A1)
- » Spotting rifle cal. 0.50 (M-8C)
- » Mount RR 106 mm (M-79)
- » Mount telescopic (M-90)
- » Elbow telescope (M-92F)
- » Light instrument (M-42)
- » Night vision device (Optional)



Characteristics

RIFLE M40A1

- » Muzzle velocity 503m/sec. (1650 ft/sec)
- » Range (direct fire) 2012 Meters (6601.4 ft)
- » Armour piercing capacity 350 mm (13.5 inches)
- » Weight net 114 kgs (251 lbs)
- » Shipping volume 1.33 cum. (47 cft)
- » Shipping weight 259 kgs. (571 lbs)

MOUNT M79

- » Type wheel barrow
- » Width (base arm closed) 800 mm (31.5 inches)
- » Width (base arm spread) 1525 mm (60 inches)
- » Weight net 89 kgs. (196 lbs)
- » Shipping volume 0.95 cum. (33.5 cft)
- » Shipping weight 170 kgs. (375 lbs)

Heavy Mortar 120 MM (MO-120AM -50 M 67)



Comprising

- » Ordnance 120 mm assy
- » Bipod assy
- » Base plate assy
- » Muzzle towing attachment
- » Carriage assy
- » Tie rod assy
- » Shield assy
- » Sight

Characteristics

- » Calibre 120.15mm
- » Length of barrel with breech 1.746M
- » Field of laying for elevation 45 to 85
- » Weight of barrel with towing ring 76Kg
- » Weight of base plate 80 Kg
- » Weight of bipod 86 Kg
- » Weight of carriage 13/7 Kg
- » Total weight with carriage 402 Kg
- » Range with PEPA-LP-AP bomb 8950 M
- » Rate of fire : Normal 08 rounds /min
Maximum 12 rounds/min

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Mortar 81 MM (Long Barrel)

- » Ordnance 81mm
- » Mount assembly
- » Base plate assembly
- » Sight unit

Characteristics

- » Total weight = 41.5Kg
- » Weight of barrel =14.5 Kg
- » Weight base plate assembly = 14.8Kg
- » Weight of mount =12.2Kg
- » Length of barrel =1.45M
- » Range =5000 M
- » Shipping volume =(18 cft approx) 0.51cum
- » Shipping weight =108.00 Kg



THE MORTAR CAN FIRE:

- The explosive bomb Mk 61 (with V 19 P fuse)
- The coloured explosive bomb Mk 61 (green, yellow or red)
- The smoke bomb Mk 61
- The illuminating bomb Mk 65

Light Mortar 60 MM

Characteristics

- » Bore = 60 mm smooth
- » Length of barrel =623 mm with breech
- » Elevation =45 to 80 degrees
- » Range= 50 to 2000 meters
- » Rate of Fire =8 rounds per minute
- Type of firing mechanism= Manual
- » **Weights:**
- » Gross =14.8kg
- » High explosive round =1.3kg
- » **Ammunition:**
- » High explosive
- » Smoke illuminating



Portable Anti-Tank Rocket Launcher 40 mm (RPG-7)



The main features are:

- Calibre of launcher =40mm.
- Length of grenade launcher =950 mm.
- Weight of grenade launcher with telescopic sight =6.3kg.
- Maximum aimed range =500 M.
- Rate of Fire =4-6 rounds/ min
- Armour penetration =300 mm.
- Shipping volume= 0.21cum

Pressure Die Cast Parts



In non-ferrous alloys like aluminum copper and zinc

We produce pressure die cast parts for automotive, gas distribution and electrical industries. We also have the requisite facilities for development of components and quality die making as well.

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Fiat Tractors



Massey Ferguson Tractors



Pak-Machine Tools

Diamond Wire Stone Cutting Machine

- » Machine can be used on all types of marble, granite and stone with the best performance
- » Electronic feed control system, which guarantees constant and uniform motion, thus increasing the diamond wire efficiency
- » The special feed system, sprocket on steel cylinders at rail permits a correct positioning of the machine even on steep slopes. (50 HP, 75 HPJ)
- » The special feed system. Rack 6° Pinion permits a correct positioning of the machine even on steep slopes. (25HPJ)
- » The aluminium flywheel directly connected with the motor to minimize power leaks, can rotate on 360° to make any kind of inclined cuts
- » The flywheel can be positioned laterally up to 30cm per side through hydraulic valves



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Machine Tool Products

Machine Tools technology is the mother technology, which is said to be the backbone of any country's technological growth. Since 1971, PMTF is serving the country by providing its hi-tech precision machinery products to industries in Pakistan. The current machine tool production line includes Precision Lathe, Millings, Drillings CNC lathes, Turning centre and machining centers.

PMTF is also producing quarrying machinery including DTH and Diamond Wire saw machines in 3 sizes to support local quarry / marble industry with quality machines, by lowering their high rate of wastages in marble cuttings and higher productivity / profitability

Down The Hole Drilling Machine (DTH)

Pneumatically Operated 90MM for Quarrying Operation

- › DTH is an air-operated drilling system equipped with a down hole drill which is suitable for all types of marble granite and other stone materials
- › The holes drilled can be used to insert diamond wires in order to perform quarry face cuts of various dimensions Drilling at different angles thanks to the ball joint linking the securing unit and the guide bar
- › Light weight and easy transfer, since the system can be dismantled in to components weighing no more than 50 Kg
- › DTH provides technical and constructional features which make it suitable for safe and economic drilling operations



NC Machines Milling



Lathe



Drilling



CNC Milling



CNC Lathe



CNC Turning Centre



CNC Lathe Eco

