



# **A TEACHING FACTORY**

PROGRESS THROUGH KNOWLEDGE & SKILLS

## INTRODUCTION:

**KTDMC** is a project setup by Ministry of Production, Government of Pakistan, to provide Trainings and services to upgrade the skills of Technicians and Professionals to learn Tools, Dies and Moulds Manufacturing technologies including Computer Aided Designing (CAD) and Manufacturing (CAM).

KTDMC offers **Trainings** and **Manufacturing** services in the areas of:

- Design & Development (CAD/CAM/CAE),
- Dies & Moulds Manufacturing,
- Reverse Engineering
- Quality Control & Inspection
- Vacuum Heat Treatment.

KTDMC started its operations in August 2007. Since then we have trained more than **800** students in short term courses. KTDMC also offers One Year Specialized Diploma, Three Years DAE in Dies & Moulds Technology. KTDMC is affiliated with NED University of Engineering & Technology (**NED-UET**) and Sindh Board of Technical Education (**SBTE**).

We have produced **more than 50** Dies and Moulds of medium & large size for different industries. Some of our valued customers includes: Atlas Honda, Pak Suzuki, Siemens, Areva T&D, Alsons Auto parts, Loads Pvt. Ltd., Syntech Fibre, SSGC, Pakistan Machine Tool Factory, Omer Jibran, DYL Motorcycle, Decent Plastics, Ideal Plastics, Bombal Plastics and many more. We are the only **Heat Treatment Services Provider** commercially in Pakistan with state of the art Vacuum Hardening & Nitriding Furnaces. The **Reverse Engineering Facility** is equipped with state of the art Scanner and CMM that enables us to redesign from the physical part with precision. Moreover we are pioneer to introduce 3D Scanning in Quality Control & Inspection.



## TRAINING PROGRAM/COURSES:

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### LONG COURSES

Diploma of Associate Engineer (DAE) in Dies & Moulds Technology

**Pre-Requisite:**

*Matriculation Science/Technical with Minimum 45% Marks*

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One Year Diploma in Dies & Moulds Technology

**Pre-Requisite:**

*Intermediate Pre-Engineering/ DAE with Minimum 45% Marks*

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### SHORT COURSES

Basic CAD on *ProE / NX / CATIA*

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Advance CAD on *ProE / NX / CATIA*

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Basic CAM (*CNC Machining + Programming*)

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Advance CAM on *ProE / NX / CATIA*

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Mould Design on *ProE / NX / CATIA*

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Die Design on *ProE / NX / CATIA*

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Vacuum Heat Treatment

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Conventional Machines Operation

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Reverse Engineering on *Rapid Form XOR*

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Quality Control & Inspection on *Rapid Form XOV& GOM Inspect*

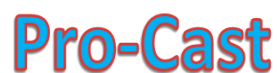
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## LICENSED CAD/CAM/CAE SOFTWARES

1.	Unigraphics NX Licensed Software
2.	Pro Engineer Licensed Software
3.	CATIA Licensed Software
4.	Rapid form XOR Licensed Software
5.	Rapid form XOV Licensed Software

## LICENSED ANALYSIS & SIMULATION SOFTWARES

1.	Pro-Cast	It is used to simulate pressure Die Casting parts and Moulds.
2.	Mouldex-3D	It is used to simulate plastic parts and Moulds.
3.	Auto Form	It is used to simulate sheet metal parts & Dies.



## **CNC MACHINES**

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1.	Double column VMC
2.	CNC VMC
3.	CNC Turning Centre
4.	CNC EDM
5.	CNC Wire Cut

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## **QUALITY CONTROL AND REVERSE ENGINEERING EQUIPMENT**

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1.	GOM 3D Scanner
2.	Carl Zeiss CMM Machine

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## **VACUUM HEAT TREATMENT EQUIPMENT**

Capacity: 600X600X900 mm with maximum loading 800 Kg each.

## **SUPPORTING CONVENTIONAL MACHINES**


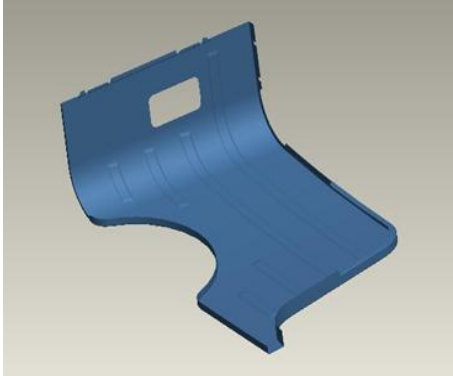
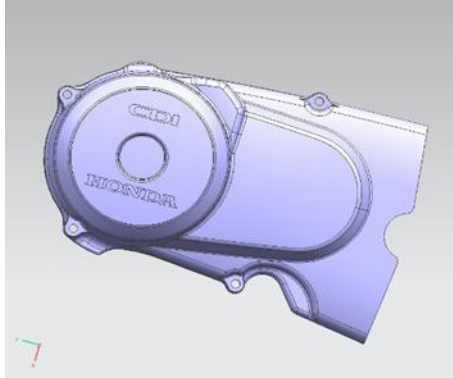
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1.	Bed Type Milling
2.	Turret Type Milling
3.	Radial Drilling Machine
4.	Upright Drilling Machine
5.	Surface Grinding Machine
6.	Cylindrical Grinding Machine(Internal/External)
7.	Universal Tool & Cutter Grinder
8.	Conventional Lathe
9.	Cutting Saw
10.	Bending Saw


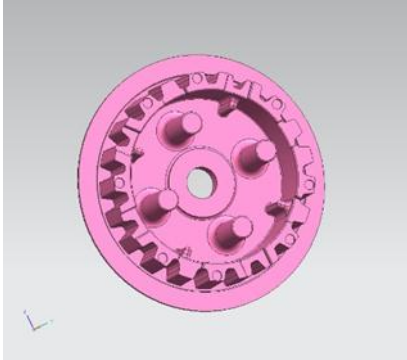
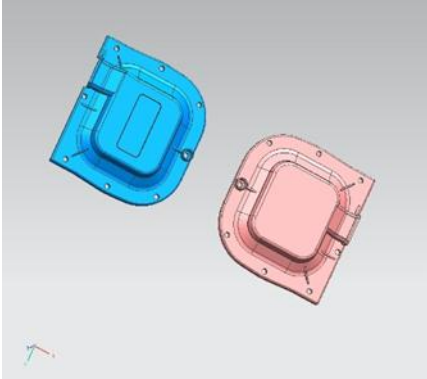
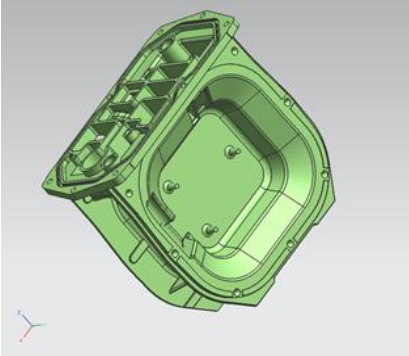
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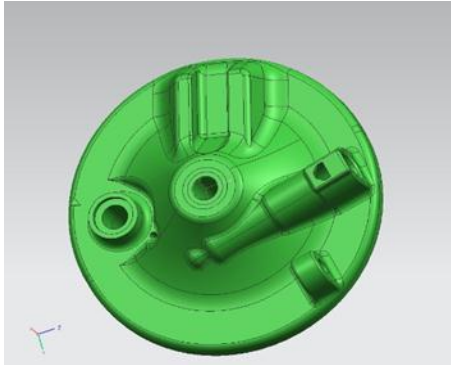
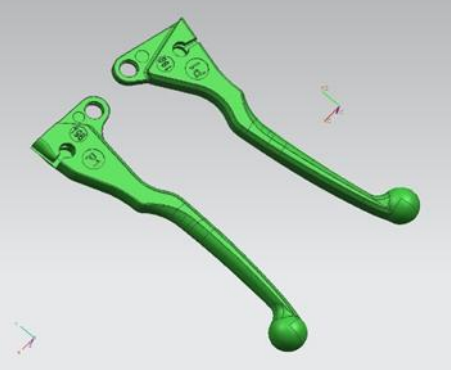

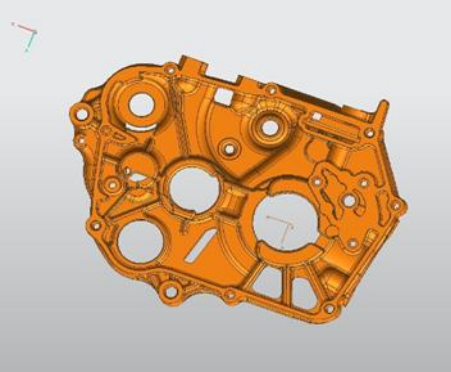
## COMPLETED PROJECTS:

We have manufactured various Dies & Moulds for the industry. Some of our Dies & Moulds Manufacturing projects includes:

Project Title	Project Snapshot	Customer
<i>Cover Parking Brake</i>		<i>Alsons Autoparts</i>
<i>Rickshaw Fender R/L</i>		<i>N.J Autos</i>
<i>Cover L, Crank Case</i>		<i>Atlas Honda Limited</i>






<p><i>Left Crank Case (CD-70)</i></p>		<p><i>Atlas Honda Limited</i></p>
<p><i>Cover R, Crank Case (CG-125)</i></p>		<p><i>Atlas Honda Limited</i></p>
<p><i>Knob YN3</i></p>		<p><i>Masood Engg. Works</i></p>
<p><i>Case Bottom CD-70</i></p>		<p><i>Atlas Honda Limited</i></p>

<p><i>Case Bottom CG-125</i></p>		<p><i>Atlas Honda Limited</i></p>
<p><i>Boss Clutch Mould 5HM</i></p>		<p><i>DYL Motorcycles Ltd.</i></p>
<p><i>G1.6 Side Cover</i></p>		<p><i>Pak Swed Metal &amp; Al Ind.</i></p>
<p><i>G1.6 Main Body</i></p>		<p><i>Pak Swed Metal &amp; Al Ind.</i></p>

<p><i>Brake Panel (CD-70)</i></p>		<p><i>Atlas Honda Limited</i></p>
<p><i>Bracket Handle Lever (70 cc)</i></p>		<p><i>United Industrial Aid</i></p>
<p><i>Shoe Brake - (4 cavity) CD-70</i></p>		<p><i>Friction Materials Components</i></p>
<p><i>Right Crank Case (CD-70)</i></p>		<p><i>Atlas Honda Limited</i></p>

## OUR CUSTOMERS

Our trainers had trained following prestigious organizations in the field of CAD/CAM/CAE:

			
<p>Procon Engineering (Pvt) Ltd</p>	<p>Pakistan Space &amp; Upper Atmosphere Research Commission (SUPARCO)</p>	<p>Pakistan Council of Scientific &amp; Industrial Research (PCSIR)</p>	<p>AuVitronics Pvt. Limited. (AVT)</p>
			
<p>Indus Motor Company (IMC)</p>	<p>Khan Research Laboratories (KRL)</p>	<p>Honda Atlas Cars</p>	<p>Gujranwala Tools, Dies &amp; Moulds Centre</p>
			
<p>Prime Safety Limited</p>	<p>MedMolds Pvt. Ltd</p>	<p>Atlas Engineering</p>	<p>Pak Suzuki Limited</p>

D.A.E. IN DIES & MOULDS TECHNOLOGY

CAD / CAM / CAE TRAININGS

DIES & MOULDS MANUFACTURING

VACUUM HEAT TREATMENT & NITRIDING

REVERSE ENGINEERING

THIRD PARTY INSPECTION SERVICES

CONSULTANCY SERVICES

## **Karachi Tools, Dies & Moulds Centre**

Sector 38, Korangi Creek Industrial Park, Adjacent to Pakistan Refinery Limited  
Korangi Creek Road, Karachi-75190, Pakistan.

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