**MACHINE TOOL DESIGN**

**CONTENT**

1. **GENERAL MACHINE TOOL DESIGN**
   1.1 INTRODUCTION TO TOOL DESIGN
   1.2 GEOMETRIC DIMENSIONING AND TOLERANCING
   1.3 TOOL MATERIALS AND SELECTIONS
   1.4 WORK HOLDING PRINCIPLES
   1.5 CUTTING TOOL DESIGN
   1.6 FORCE AND POWER REQUIREMENTS

2. **DESIGNING: MACHINE TOOL DESIGN**
   2.1 JIG DESIGN
   2.2 FIXTURE DESIGN
   2.3 GAGE DESIGN
   2.4 TOOLING FOR JOINING PROCESSES

3. **DRAFTING / DESIGN PRACTICE**
   3.1 MACHINE TOOL DRAFTING PRINCIPLES
   3.2 AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI) STANDARDS
   3.3 CREATING TOOLING DRAWINGS AND LAYOUTS

4. **MACHINE TOOL DESIGN SOFTWARE’S**

5. **LIVE PROJECTS FOR MACHINE TOOL DESIGN ENGINEERING**

**CHENNAI**

No.5, Boopathy Street, Virugambakkam,
NEAR - NATIONAL INOX MOVIE THEATRE
Virugambakkam Bus Stop and Mosque Opposite,
Chennai - 600 092.
Tel: 044-42047244, 044-42077677, 044-43072173
Mobile: 093810 48884, 093810 77677, 093845 77677
Email Id: twggroupchennai@gmail.com

**BANGALORE**

No.54, 15th Main Road, 2nd Floor,
East of Chord Road, Vijayanagar,
Opposite - Vijayanagar Metro Station,
Bangalore-560 040.
Karanataka, India.
Mobile: 073580 27788, 073497 13223, 093825 88890
Email: twggroupbangalore@gmail.com

**COIMBATORE**

DHEEPAM COMPLEX
No 574 to 581, 3rd Floor,
100 Feet Road, Near G.P. Signal,
LANDMARK: KALYAN JEWELLERY
Gandhipuram,
Coimbatore - 641 012.
Mobile: 093810 77677, 093810 48884
Email Id: twggroupchennai@gmail.com

**MUMBAI**

“CRESSENT BUSINESS SQUARE” Office No. 810
Kherani Road, Opposite - SJ STUDIOS
Sakina Metro Junction,
Andheri (East)
Mumbai - 400 059.
Mobile: 093810 48884, 073580 27788
093810 77677, 076679 78887
Email Id: twggroupmumbai@gmail.com

**KOCHI**

“TWG GROUP KOCHI”
Near LULU Shopping Mall,
Edappally Toll Junction,
Metro Bridge - Piller No - 387
V.P Marakkar Building,
V.P Marakkar Road,
Via - Vanitha & Vinitha Theaters,
Edapally P.O, Kochi - 682 024.
Mobile: 093810 48884, 093810 77677, 093845 77677
Email Id: twggroupchennai@gmail.com

**TRICHY**

SRI GEM PLAZA
No. 3, 4th Floor,
Sankaran Pillai Street,
S.R.C College Road,
Chathiram Bus Stand,
Trichy-620 002.
Mobile: 093845 77677, 093825 88890
Email Id: twggroupchennai@gmail.com

**VIZAG**

No. 8 -12 -1/1, II Floor,
Gayathri Nilay, Gokul Nagar,
Beside Varun Motors/Karur Vysya Bank Backside,
OLD GAJUWAKA JUNCTION,
VISHAKAPATINAM - 530 026.
Andhra Pradesh, India.
Mobile: 093810 48884, 076679 78887, 073580 27788
Email Id: twggroupchennai@gmail.com

**TRIVANDRUM**

CHENNAI | DELHI | GUJARAT | KOLKATA | MYSORE | TRICHY | VELLORE | COIMBATORE | VIZAG | COCHIN | TRIVANDRUM | CALICUT | HYDERABAD | PONDICHERRY | MADURAI | NAGARCOIL | AMARAVATI