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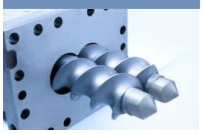
ZSK 101

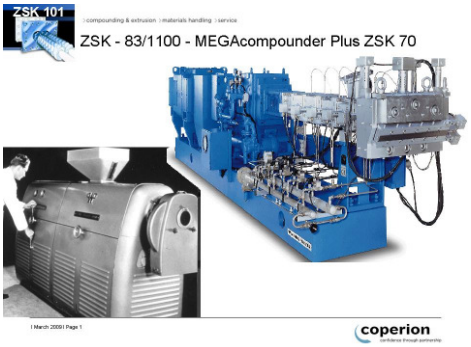


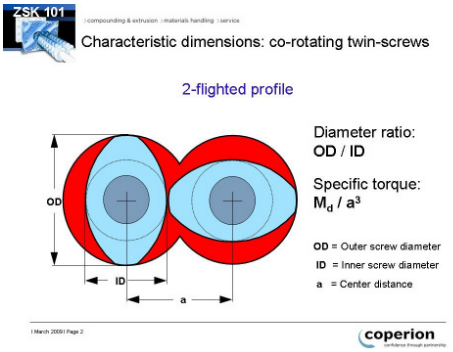
ZSK 102 COURSE OUTLINE

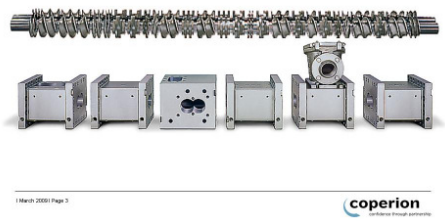
ZSK TWIN SCREW EXTRUSION WORKSHOP

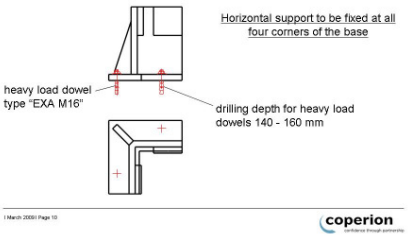
DAY 1:

- **I. INTRODUCTION**
- **II. ZSK DESIGN CHARACTERISTICS**
  - **A. Historical Background**
    1. **Applications of Twin Screw**
    2. **Different ZSK Generations**
  - **B. Definitions**
    1. **Outer & Inner Diameter**
    2. **Torque**
    3. **Free Volume**
  - **C. Basic Machine Components**
    1. **Screw Bushings**
    2. **Kneading Blocks**
    3. **Special Elements**
       a. **SK/SF**
       b. **Distributive Mixing Elements**
       c. **3-lobe K.B.**
    4. **Barrels**
    5. **Vents**
  - **D. Pelletizer Options**
- **III. LABORATORY - Screw Assembly**
- **IV. MAINTENANCE OVERVIEW**
  - **A. Maintenance Manuals**
  - **B. Spare Parts**









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ZSK 102 COURSE OUTLINE

ZSK TWIN SCREW EXTRUSION WORKSHOP

DAY 2:

V. PROCESS CONTROLS & INTERLOCKS
- **A. System Scope**
- **B. Design**
- **C. Safety Interlock System**

VI. LABORATORY - Barrel Assembly, Screw Installation

VII. EXTRUDER WEAR/MATERIAL OF CONSTRUCTION
- **A. Types of Wear**
- **B. Wear Reduction/Process Related Minimization**
- **C. Wear Reduction/Special Materials of Construction**