WIL Manufacturing Facilities

Complying With Various Codes
- Area under the crane: 56000 sq. Mtr.
- Single piece lifting capacity up to 150 T
- Overhead crane with plate bending capability up to 200 mm
- Large hoist for machining diameters up to 6.5 M
- Sophisticated automatic welding systems capable of precision welding of exotic materials
- Complete in house set up to carry out NDT such as X-Ray, U/T and destructive testing on test bars
- Modern measuring instruments for precision measurement of dimensions
- Well trained & experienced work force

Quality Assurance & Control
- Elaborate quality systems to meet the requirements of National & International Standards.
- WIL has approved by reputed Inspection Agencies and have successfully executed many projects to their satisfaction.

Critical Materials Handled
Cladded steel (Stainless steel, Titanium cladding), Alloy steel (including varieties of Cr, Mo steels), Stainless steel (Austenitic, Martensitic & super duplex types), High strength Maraging steel, Vanadium steel, Inconel, Monel, Incoloy, Titanium alloys, Aluminum alloys, Cobalt alloys etc.

Inspection Facilities:
1. 3 D Co-ordinate Measuring Machine with working Range: 1.5 x 1 x 0.7 M
2. Gear Testing Machines for Dia 2 M & Face Width 260 mm
3. Dynamic Balancing Machine for Job Dia 2.5 M & Length upto 2.5 M
4. Load 6 T., Sensitivity 0.8 Gms-Cms
5. Testing machines for hardness, impact, tensile & compression
6. Ultrasonic, Gamma Ray, X-Ray Testing
7. Magnetic Crack Detector, Noise & Vibration Tester
8. Helium Leak, Vacuum Testing
9. Optical Tooling
10. Metallographic Microscope, Universal Microscope
11. Metallographic Facsimile
12. Profile Projector

Other Business Areas
Boiler | Cement | Gear Boxes | Mining and Metals | Process Equipment | Defence and Missiles | Aerospace | Nuclear | Foundry | Precision Instruments |

Sugar Plants and Machinery
End to End Turnkey Solutions...

Inspection Facilities:
- 44.6 MW Cogeneration Power Plant [With 2 x 115 TPH, 110 kg/cm² (g)]
- 3 D Co-ordinate Measuring Machine with working Range: 1.5 x 1 x 0.7 M
- Gear Testing Machines for Dia 1 M & Face Width 260 mm
- Dynamic Balancing Machine for Job Dia 2.5 M & Length upto 2.5 M
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Our Customers
International
- Worli Sugar works, Karva - West Kenya Sugars, Kenya - Kajjansi Sugar, Tanzania - Kency Sugar Works, Uganda
- Nederland Sugar Co. Ltd., Simbaisa Sugar Factory, Zimbabwe - The Nigeria Sugar Co. Ltd., Obote Bridge
- Bangladesh Sugar Corporation, Eastern Sugar Mills, Nepal - Gaia S. N. Lanka - Cameron Footbridge, Calcutta, South America
- Inda Shakti-Chini Udyog Limited, Nepal - Mittal Steel Amalia, Algeria - Nigeria Sugar International, Nenembe, Nigeria
- Archer Sugar Mills, Nepal and many more...

Domestic
- Bajaj Hindustan Ltd. - Balrampur Chini Mills – Kumbhi - Doodhganga, Chikodi - Empee Sugars - Food Fats & Foodstuffs Ltd.
- Purna SSK Ltd. - Rajagurrama Renewable Energy Ltd. - Sri Balaji Brooms Power Ltd. - Tamil Nadu Electricity Board - Ugar Sugar
- Varuna SSK Ltd. and many more...

Marketing & Projects Office:
Walchand House, 1674 A, 2/9, Kurni Road, Kothrud, Pune 411 038, Maharashtra, INDIA
Ph.: +91 (020) 30252400/700
Email: wil@walchand.com

www.walchand.com

Sugar Projects: Email: wilsugar@walchand.com | Fax: +91 20 3025 2868

WALCHANDNAGAR INDUSTRIES LTD.

Sugar Plants and Machinery
End to End Turnkey Solutions...

WIL Manufacturing conformity to codes: BS, ASME, AWWA, DRL, IS, AGMA, TMM & ASME
Approved by Inspection agencies like: EIL, LLOYDS, PDIL, NIREKU VERIFLACS, UNICE, TECTO, NTPC, BUREAU VERITAS, ASME, etc.
Walchandnagar Industries Limited (WIL), India is an ISO 9001:2008 certified heavy engineering conglomerate specializing in Turnkey project execution and Hi Tech manufacturing, catering to customers across the globe.

WIL offers an entire spectrum of services from Design, Engineering, Manufacturing to Erection and Commissioning of plants and machinery for the sugar, boiler, cement and mining industry. Hi-tech manufacturing of critical and complex components for nuclear, defense, aerospace and marine sectors and Engineering products like heavy duty gearboxes for marine and industrial applications, castings and precision instruments. A perfect blend of superior technical expertise, sound project management capabilities as well as relentless commitment to the highest standards of quality, ethics and efficiency is what make WIL a preferred supplier and solution provider of choice.

WIL is a pioneer in India in the field of complete sugar projects on turnkey basis and has also absorbed the technology from SKODA, Czechoslovakia in 10 years of its partnership. WIL has patented certain technologies that give WIL a premium supplier status.

Our Success Stories

- 1st company from India to export sugar plant and machinery (13,000 TCD cap) to Africa in 1976
- 60+ years of proven experience
- 80+ green field sugar projects commissioned
- 100+ major expansion projects
- Up to 26000 TCD daily cane crushing capacity
- 650+ different sizes of mills supplied worldwide
- 3400+ centrifugal machines supplied in India and abroad

Salient Features of Cane Crushing Mills

1. Less Top (Apex) Angle
   - Less horse power consumption
   - Less in absorption

2. Vertical Adjustment Of Bolts
   - No effect on trash plate width with roller operating and wear
   - Less limitation on roller adjustment due to trash plate width
   - Rotational less change in apex angle over operating range

3. High Eccentricity
   - Ensures free floating of top roller
   - Less power consumption

4. Trash Plate Fixed With Vertical Bolts
   - Bolts can be tightened without disturbing main roller
   - Redundant maintenance

5. Hinged Side Covers
   - The side cover can be used as a platform for bottom roller maintenance

6. Crown Friction With Special Tooth Profile
   - Accommodate large varying centers

7. Planetary Gearboxes For Mill Drive
   - WIL has successfully designed, manufactured and supplied Planetary Gear Boxes for sugar and cement industries and are in demand because of the flexibility in designing. These gearboxes increase the operational efficiency and are more apt than helical, spur and worm gearboxes.

For Sugar Mill applications Planetary Gear drives are found 10% more efficient as compared to conventional drives. WIL has designed and manufactured Planetary Gear Boxes, as per customer’s requirements for various applications up to 1500 HP for sugar mill drive and 2000 HP for other applications.

Advantage of using a Planetary Gearbox

- The gearbox drive increases the efficiency and provides extremely low speeds
- These gearboxes deliver high reduction ratios and transmit a higher traction
- These gearboxes are compact and lightweight, requiring little space occupation
- Chances of catastrophic failure due to “NO LUB OIL” are low since gear oil is partially self-lubricated by splash due to rotating elements being immersed in lube oil maintained to a level in the casing
- Foundation requirement is very less
- Installation is very easy and can be completed in a short period

Salient Features of Boiling House Equipment

- Effective Heat recovery by optimum design leading to savings in steam & power consumption
- High efficiency batch type centrifugal machine with latest drive system using VFDs

Our Product Range

- Centrifugals
- Batch Type
- Continuous
- Process House Equipments
- Milling Plants
- Heavy Duty Swing Hammer Cane Fibercutter
- Efficiency and Capacity Optimization Projects
- Refinery Machinery

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Salient Features of Cane Crushing Mills

1. Less Top (Apex) Angle
   - Less horse power consumption
   - Less re-absorption

2. Vertical Adjustment Of Rollers
   - No effect on trash plate width with roller opening and wear
   - Less limitation on roller adjustment due to trash plate width
   - Relatively less change in apex angle over operating range

3. High Eccentricity
   - Ensures free floating of top roller
   - Less power consumption

4. Trash-Plate Fixed With Vertical Bolts
   - Bolts can be tightened without disturbing main roller
   - Reduced maintenance

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8. Rope Coupling For Mill Drive
   - Multi misalignment "rope" type coupling with specially designed polyester ropes for connecting the driving and driven halves through the compression plate

Salient Features of Boiling House Equipment

1. Use of Falling Film Evaporators for extensive bleeding
2. Eliminating use of live steam from Process House
3. Super heated waste water of centrifugals from condensate flash vessel
4. Molasses Conditioning by waste heat of noxious gases
5. Sugar melting by 4th Effect Vapors
6. Super heated wash water of centrifugals from condensate flash vessel
7. Condensate Flash Recovery
8. Direct Contact Heaters
9. Horizontal Swing Hammer Cane Fibrizer
10. Continuous Centrifugal Machines
11. Energy Efficient Motors
12. Rope Couplings

Energy Saving

- VFDs
- Planetary Gear Boxes
- Antifriction Bearings
- Direct Contact Heaters
- Condensate Flash Recovery
- Molasses Conditioning by waste heat of noxious gases
- Sugar melting by 4th Effect Vapors
- Super heated wash water of centrifugals from condensate flash vessel
- Eliminating use of live steam from Process House
- Use of Falling Film Evaporators for extensive bleeding

Steam Saving Devices

- VFDs
- Planetary Gear Boxes
- Antifriction Bearings
- Energy Efficient Motors
- Rope Couplings

About WIL

WIL, a pioneer in India in the field of complete sugar projects on turnkey basis and has also absorbed the technology from SKODA, Czechoslovakia in 13 years of its partnership. WIL has patented certain technologies that give it a premium supplier status.

WIL offers an entire spectrum of services from Design, Engineering, Manufacturing to Erection and Commissioning of plants and machinery for the sugar, boiler, cement and mining industry. It is a leading manufacturer of critical and complex components for nuclear, defence, aerospace and marine sectors. From the inception of WIL, with heavy duty gearboxes for marine and industrial applications, castings and precision instruments, WIL has maintained to a level in the casing due to rotating elements being immersed in lube oil maintained to a level in the casing. A perfect blend of superior technical expertise, sound project management capabilities as well as relentless commitment to the highest standards of quality, ethics and efficiency is what makes WIL a preferred supplier and solution provider of choice.

Advantage of using a Planetary Gearbox

- The gearbox drive increases the efficiency and provides extremely low speeds
- These gearboxes deliver high reduction ratios and transmit a higher torque
- These gearboxes are compact and lightweight, requiring little installation space
- Chances of catastrophic failure due to "NO LUB OIL" are low since gear box is partially self lubricated by splash due to rotating elements being immersed in lube oil maintained to a level in the casing
- Foundation requirement is very less
- Installation is very easy and it can be completed in a short period

• 1st company from India to export sugar plant and machinery (1500 TCD cap) to Africa in 1976
• 60+ years of proven experience
• 80+ green field sugar projects commissioned
• 100+ major expansion projects
• Up to 26000 TCD daily cane crushing capacity
• 650+ different sizes of mills supplied worldwide
• 3400+ centrifugal machines supplied in India and abroad

1. Centrifugal
2. Batch Type
3. Continuous
4. Process House Equipments
5. Milling Plants
6. Heavy Duty Swing Hammer Cane Fibrizer
7. Efficiency and Capacity Optimization Projects
8. Refinery Machinery

Our Product Range

Our Success Stories

- Centrifugal
- Batch Type
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- Effective Heat recovery by optimum design leading to savings in steam & power consumption
- High efficiency batch type centrifugal machine with latest drive system using VFDs

Energy Saving

- VFDs
- Planetary Gear Boxes
- Antifriction Bearings
- Energy Efficient Motors
- Rope Couplings

Steam Saving Devices

- VFDs
- Planetary Gear Boxes
- Antifriction Bearings
- Energy Efficient Motors
- Rope Couplings

- Direct Contact Heaters
- Condensate Flash Recovery
- Molasses Conditioning by waste heat of noxious gases
- Sugar melting by 4th Effect Vapors
- Super heated wash water of centrifugals from condensate flash vessel
- Eliminating use of live steam from Process House
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Salient Features of Boiling House Equipment

- Effective Heat recovery by optimum design leading to savings in steam & power consumption
- High efficiency batch type centrifugal machine with latest drive system using VFDs

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- Centrifugal
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- Process House Equipments
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Energy Saving

- Power Saving Devices
  - VFDs
  - Planetary Gear Boxes
  - Antifreeze Bearings
  - Energy Efficient Motors
  - Rope Couplings

Steam Saving Devices

- Direct Contact Heaters
- Condensate Flash Recovery
- Molasses Conditioning by waste heat of noxious gases
- Sugar melting by 4th Effect Vapors
- Super heated waste water of centrifugal from condensate flash vessel
- Eliminating use of live steam from Process House
- Use of Falling Film Evaporators for extensive bleeding
Complying With Various Codes

- WIL Manufacturing conformity to codes: IBR, ASME, AWS, DNV, DED, DIL, AGMA, TEMA
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Quality Assurance & Control

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Critical Materials Handled

- Cladded steel (Stainless steel, Titanium cladding), Alloy steel (including varieties of Cr, Mo steels), Stainless steel (Austenitic, Martensitic & super duplex types), High strength Maraging steel, Vanadium steel, Inconel, Monel, Incoloy, Titanium alloys, Aluminium alloys, Cobalt alloys etc.

Inspection Facilities:

1. 3-D Coordinate Measuring Machine with working range: 1.2 x 1 x 0.6 M
2. 3-D Coordinate Measuring Machine with working range: 1.2 x 1 x 0.6 M
3. Electronic Measuring Machine for Dia 2.5 M & length up to 2.5 M
4. Leica 4M, bodied by E. Leica Co. Inc.
5. Testing machines for hardness, impact, Izod & compression
6. Ultrasonic Flaw Detector - Ring Testing
7. Non Radiographic Testing Machine
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10. Optical Tooling
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Other Business Areas

- Boiler | Cement | Gear Boxes | Mining and Metals | Process Equipment | Defence and Missiles | Aerospace | Nuclear | Foundry | Precision Instruments

Marketing & Projects Office:
Walchand House, 167A, 2/8 + 2/9, Karve Road, Kothrud, Pune 411 038, Maharashtra, INDIA
Ph: +91 (020) 3025 2400/700
Email: wailsugar@walchand.com
Fax: +91 20 3025 2868

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