**CONCRETE BATCHING PLANTS**

**Our Business:**
- Installation of complete batching plants & commissioning.
- Up gradation possible anytime.
- Local Service centre and trained work force attend all service requirements at customers end.
- Local fabrication of all steel structure, Silos, Aggregate Bunkers, Platforms, Ladders, Conveyors, reduces over all cost of European machine.
- Single source supplier for various needs of customers.

*Tech International F.Z.C, Member of Al Sulaimi Group*

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Company Profile:

MeTECH JOBSHOP, a manufacturing division of Tech International F.Z.C (TIFZC), is the flagship company of the Al Sulaimi Group in the Sultanate of Oman, and has been in existence for over more than three decades. It has its marketing service and manufacturing facilities located strategically in the Hamriyah Free Zone of Sharjah, U.A.E.

TIFZC serves the Middle East region, which continues relentlessly to expand in the construction, marine, oil and gas sector.

Products

- Batching Plant
- Batchtron Software
- Upgradation of old batching plant
- Silos, Silo equipment, Aggregate Bunker, Platform, Ladders, conveyors, Liners
- Planetary, Twin shaft & Pan Mixers
- Local Service,
- Moisture sensors and equipment
- Automation Technology
- Steel structure related to infrastructure of batching plant.

Batching Plants

meTECH can offer the complete range of batching plants starting with a capacity of 30 Cu.m/hr to 240 Cu.m/hr.

Plant types-Conveyor or Skip loading, Wet & Dry output, Aggregate Bunker feeding by Ram or Radial conveyor & Mobile or Fixed type.

Plants for ready mix, precast, blocks, paver, hallow-core & asphalt.
Silos, Silo equipment, Aggregate Bunker, Platform, Ladders, conveyors, Liners
Local fabrication reduces overall cost of European machine

Cement silos are available from 50ton to 250ton with custom design & diameter from 2.33m to 3.75m.

Aggregates batcher/bunkers are available from 40Cu.m to 240Cu.m.

Silo accessories (8 images)

- Screw conveyor
- Silo top filter
- Level indicator
- Safety valve
- Butterfly valve
- Aeration system
- Vibrator
- Pinch valve

Wear Linings for Drum and Pan Mixers from meTECH, are the logical cost effective choice.
Planetary Mixers
The planetary (or countercurrent) design has one or two mixing stars that rotate themselves while also rotating around a central point, allowing each arm to cover the whole mixer floor in a number of revolutions. This powerful mixing action is both fast and thorough, resulting in a mixing time, after water is added, of 30 seconds or less for most types of concrete.

Other important features and benefits
Up to 30% greater pan volume than many others rated for the same output, ensuring that it will carry the full rated load and mix it properly.
Performs equally well on full and small partial batches - the ARMS do the mixing. Paddles are needed for discharge only.
Large reduction gearbox and oil bath is cool running, good for the life of the mixer. Compare with others using small commercial gear units in tightly cramped, unventilated spaces that can only withstand intermittent duty without overheating and eventual breakdown. Sicoma has never had a gearbox failure in over 30 years of production.
5 year / 10,000 hour guarantee on gearboxes.
Three-armed stars have better mixing action than two-arm and last longer.
Rubber sealed discharge doors run smoothly and eliminate leakage of water.
Optional additional discharge doors, to 4 maximum.
Fast and complete cleanout without requiring extra cleanout mechanisms.

Twin shaft Mixers
The twin shaft mixers are heavy duty & the most widely used models in the world today; over 6000 in use, worldwide, in ready-mix, precast, block, paver and dam applications.
The MAO’s features go farther than any other mixer of its class. Its strong frame, triple shaft seals, harder liner plates, more efficient gear reducers and electronic alarm unit as standard equipment mean that you have peace of mind. And our 5 year warranty shows you that we are very confident in its reliability!

TRIPLE SHAFT SEALS are more effective and long lasting than any models. This major feature is internationally patented and is only found on Sicoma mixers.
EXTRA FRAME STIFFENERS  Special box sections unique to the MAO’s extra-rigid design hold mixer shape and maintain shaft alignment during heavy mixing periods.

GEAR REDUCER AND BEARINGS.  The MAO’s high-efficiency 2-stage design does not require a cooler, even for 24 hour 7 days a week continuous duty. Gearboxes and all bearings are oil-bath lubricated, eliminating the need for frequent greasing and its attendant maintenance hazard. In all the mixers produced over the last 40 years, not a single gearbox has required replacement. All gearboxes are guaranteed for 5 years/10,000 hours of use.

MIXING ACTION  The counter-rotating blades are angled at 45° to throw the mix towards the opposite side of the mixer while imparting an axial motion at the same time. MAO has one more set of blades on each shaft compared with others of the same size, perfecting the spiral mixing action that forces the mix to circulate in a counterclockwise direction, allowing the ISO target of 95% homogeneity to be reached within 30 seconds and a 98.5% homogeneity in 60 seconds. The result is a faster and better mixed batch than with any other twin shaft mixer, both for regular slump concrete and SCC.

There are no dead zones within the mixer; the vigorous motion of the mix ensures that material in the unswept area above the door is moving at all times while eliminating segregation when using lightweight and other special aggregates and SCC mixes.

Pan Mixers

The MT’s mixing action comes from the rotating blades, which are scientifically designed to push the material from the inside to the outside of the chamber and back again, whilst lifting and folding it, mixing the concrete fully in a few revolutions.

The MT’s mixing arms are suspended from spring-action mounts, allowing them to ride up and over any possible obstructions without damage. The large, cool running epicyclical reduction gear is direct driven; no belts to wear and break. The mixer can be started with a full load without damage.

Deep mixing chamber is larger than others in its class, ensuring that it can be truly filled to its rated capacity and properly mixed.

Performs equally well on full and small partial batches.
All BatchTron concrete batching controllers are based on the reliable **PLC and touch screen** principle, giving them a reputation second to none. BatchTron is one of the most popular controllers on the market and is the choice of large corporations such as Lafarge Construction Products as well as many smaller operations.

**Automation Technology**

- **Large touch screen**: full 10.5" diagonal, T.F.T. display, bright from any angle. Even complicated plants appear simple, requiring little training.
- **Crisp, clear graphics**: touch pads are a more convenient size and buttons are dynamic (they change colour and move - gates actually open and close) for better operator feedback, fewer mistakes.
- **Ability to use special characters**, such as Chinese - no need for operators to understand English.
- **More ingredients**, up to 14 solid ingredients plus 2 waters and 12 admixtures to handle the largest plants.
- "**Bin mapping**" allows you to assign different ingredients to the same bin and choose their batching sequence.
- **150 formulas standard**, plus optional larger program memory for the most demanding applications.
- **Tailored** to all concrete batching applications. Our engineers ensure that the system fits your plant exactly. Special features and machinery are no problem.
- **BatchLink** PC computer based customer database gives you order entry, delivery tickets, production records, inventory and more.
- When used within the RediLink or BatchLink system, BatchTron-III reports every unauthorized material feed and batch - whether connected to the computer system or not! **Never lose product or compromise your quality through sloppy operators ever again.**
- **Built-in mixer moisture controllers** - microwave based systems at a fantastic price, with calibration directly from the screen.

**ACCURACY AND SPEED**
The fastest and most accurate batching you have ever seen.

- **Automatic tolerance checks** on all ingredients.
- **Totally self-tuning** for fast, precise batching every time.
- **Automatic moisture compensation** for aggregates is standard.
- **Admixes can be proportioned** by volume or by weight of cementitious materials.
- Delivery of **separate formulas and batch sizes** to different user stations.
- **Programmable alarms** for plant functions such as conveyors and mixer not running, gates and doors sticking.
- **Programmable timers** for adjusting mixer charging sequence, belt runout and many other functions.
- **Password protection** of all formula and setup information, safe from unauthorized access.
- **SIMULATE mode** allows system to run with outputs disabled for training and fault finding
- **ALL AUTO button** sets all controls to "auto", eliminating need to scan controls before starting operation
- **Programming console** feature on touch screen allows authorized personnel to monitor software and fine-tune internal settings

**REDLINK** is a software system that controls the entire procedure of ready-mix concrete or asphalt production, including raw material suppliers (plants and quarries), order entry, dispatching, invoicing and mix design formulation by controlling all activities from the main office. It is a multi-computer, multi-location system that can run on a single station for small plants or many stations for large operations. Its extreme ease of use and flexibility allows screens and reports to be modified by the user to suit his needs.

**Moisture sensors and equipment**

- **RadarTron** measures the moisture of fine aggregates such as sand, crushed stone and other granular materials. Its microwave technology eliminates all errors associated with resistance and capacitance methods, guaranteeing an accurate reading every time.
- **RadarTron** has **empty bin detection** which holds the reading when material falls below the sensor, avoiding spoiled batches. NOW with digital alarm output.
- **Digital version** has simple digital calibration through external computer.

**Weighing & Automation**

- **Type F60X**
- **Type ZFA**

| Bending beam load cell | Tension ‘S’ load cells 25kg...5000kg |
Our Partners

Concrete batching plant & mixers

![SICOMA](www.sicoma.it)

Automation technology for batching controls, moisture measurements.

![SCALETRON](www.scaletron.com)

Perfecting the Art of Concrete Production

Screw conveyors, butterfly valves, filters, level indicators, silo accessories.

![WAMGROUP](www.wamgroup.com)

![SCAIME](www.scaime.com)

Infinite Precision

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Integrating Service, Material and Technology

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