



# **TMK GULF INTERNATIONAL PIPE INDUSTRY**

**6" - 24" ERW Pipe Mill in Sultanate of Oman**



**2022**



## Strategic Location



TMK Gulf International Pipes Industry LLC (TMK GIPI) is a fully integrated pipe mill located in Sultanate of Oman, 7 km away from deep-water port Sohar and 60 km from UAE border.



## Production Capabilities

TMK GIPI started production in December 2009. TMK GIPI is the first manufacturer of high pressure steel pipes and casing pipes in the Sultanate and the Middle East/North Africa Region to produce up to 24" ERW carbon steel pipes. In 2016 TMK GIPI upgraded the ERW Mill to produce 60" Pipes.

TMK GIPI is approved by main operators i.e. PDO/Shell, OQ, BP, OXY, KOC, QP (For External FBE Coating)

### Capabilities:

|              |                                                                                                                                      |
|--------------|--------------------------------------------------------------------------------------------------------------------------------------|
| Grade        | <i>API 5L up to X80, Up to PSL 2, Sour / Non-sour<br/>API 5CT J55/K55/N80<br/>Various international specifications and standards</i> |
| Sizes        | <i>6" ~ 24" diameter, 4.0mm ~ 25.4mm wall thickness</i>                                                                              |
| Threading    | <i>5 1/2" ~ 13 3/8"</i>                                                                                                              |
| Coating      | <i>6 5/8" ~ 48" (Internal &amp; External)</i>                                                                                        |
| Capacity     | <i>250,000 metric tons annually</i>                                                                                                  |
| Length Range | <i>6.0 M (20 FT) ~ 18.0 M (59.0 FT)</i>                                                                                              |



# Size Range

## TMK GIPI - MILL SIZE RANGE - LINE PIPES

| OD         |       | Wall Thickness |       |       |       |       |           |       |       |       |       |               |       |       |       |       |                 |       |       |       |       |       |
|------------|-------|----------------|-------|-------|-------|-------|-----------|-------|-------|-------|-------|---------------|-------|-------|-------|-------|-----------------|-------|-------|-------|-------|-------|
|            |       | 0.157          | 0.173 | 0.188 | 0.203 | 0.219 | 0.250     | 0.280 | 0.312 | 0.344 | 0.375 | 0.406         | 0.438 | 0.470 | 0.500 | 0.562 | 0.625           | 0.689 | 0.750 | 0.866 | 0.944 | 1.000 |
| Inch       | mm    | 4.0            | 4.4   | 4.8   | 5.2   | 5.6   | 6.4       | 7.1   | 7.9   | 8.7   | 9.5   | 10.3          | 11.1  | 11.9  | 12.7  | 14.2  | 15.9            | 17.5  | 19.1  | 22.0  | 24.0  | 25.0  |
| 6 5/8      | 168.3 |                |       |       |       |       |           |       |       |       |       |               |       |       |       |       |                 |       |       |       |       |       |
| 8 5/8      | 219.9 |                |       |       |       |       |           |       |       |       |       |               |       |       |       |       |                 |       |       |       |       |       |
| 10 3/4     | 273.1 |                |       |       |       |       |           |       |       |       |       |               |       |       |       |       |                 |       |       |       |       |       |
| 12 3/4     | 323.9 |                |       |       |       |       |           |       |       |       |       |               |       |       |       |       |                 |       |       |       |       |       |
| 14         | 355.6 |                |       |       |       |       |           |       |       |       |       |               |       |       |       |       |                 |       |       |       |       |       |
| 16         | 406.4 |                |       |       |       |       |           |       |       |       |       |               |       |       |       |       |                 |       |       |       |       |       |
| 18         | 457.3 |                |       |       |       |       |           |       |       |       |       |               |       |       |       |       |                 |       |       |       |       |       |
| 20         | 508   |                |       |       |       |       |           |       |       |       |       |               |       |       |       |       |                 |       |       |       |       |       |
| 22         | 559   |                |       |       |       |       |           |       |       |       |       |               |       |       |       |       |                 |       |       |       |       |       |
| 24         | 610   |                |       |       |       |       |           |       |       |       |       |               |       |       |       |       |                 |       |       |       |       |       |
| Gr B ~ X70 |       | Up to X65      |       |       |       |       | Up to X60 |       |       |       |       | Up to X52/X56 |       |       |       |       | Length 6~18.3 M |       |       |       |       |       |

## TMK GIPI - MILL SIZE RANGE - CASING PIPES

| OD                           |       | Wall Thickness |       |       |       |       |       |       |       |       |       |       |       |       |
|------------------------------|-------|----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|                              |       | 0.219          | 0.250 | 0.280 | 0.312 | 0.344 | 0.375 | 0.406 | 0.438 | 0.470 | 0.500 | 0.562 | 0.625 | 0.689 |
| Inch                         | mm    | 5.6            | 6.4   | 7.1   | 7.9   | 8.7   | 9.5   | 10.3  | 11.1  | 11.9  | 12.7  | 14.2  | 15.9  | 17.5  |
| 6 5/8                        | 168.3 |                |       |       |       |       |       |       |       |       |       |       |       |       |
| 7                            | 178   |                |       |       |       |       |       |       |       |       |       |       |       |       |
| 7 5/8                        | 194   |                |       |       |       |       |       |       |       |       |       |       |       |       |
| 8 5/8                        | 219.1 |                |       |       |       |       |       |       |       |       |       |       |       |       |
| 9 5/8                        | 244.5 |                |       |       |       |       |       |       |       |       |       |       |       |       |
| 13 3/8                       | 339.8 |                |       |       |       |       |       |       |       |       |       |       |       |       |
| 18 5/8                       | 473.1 |                |       |       |       |       |       |       |       |       |       |       |       |       |
| 20                           | 508   |                |       |       |       |       |       |       |       |       |       |       |       |       |
| H40/J55/K55/N80              |       | PLAIN END      |       |       |       |       |       |       |       |       |       |       |       |       |
| Up to H40/J55                |       | PLAIN END      |       |       |       |       |       |       |       |       |       |       |       |       |
| THREADING : 5-1/2" ~ 13-3/8" |       | All grades     |       |       |       |       |       |       |       |       |       |       |       |       |
| Length Range : R1, R2, R3    |       |                |       |       |       |       |       |       |       |       |       |       |       |       |

## TMK GIPI - MILL SIZE RANGE - COATED PIPES

| OD     |       | Wall Thickness          |       |       |       |       |       |
|--------|-------|-------------------------|-------|-------|-------|-------|-------|
|        |       | 4~10                    | 10~15 | 15~20 | 20~25 | 25~30 | 30~35 |
| 6 5/8  | 168.3 |                         |       |       |       |       |       |
| 8 5/8  | 219.1 |                         |       |       |       |       |       |
| 10 3/4 | 273   |                         |       |       |       |       |       |
| 12 3/4 | 323   |                         |       |       |       |       |       |
| 14     | 355   |                         |       |       |       |       |       |
| 16     | 406   |                         |       |       |       |       |       |
| 20     | 508   |                         |       |       |       |       |       |
| 22     | 559   |                         |       |       |       |       |       |
| 24     | 610   |                         |       |       |       |       |       |
| 28     | 711   |                         |       |       |       |       |       |
| 30     | 762   |                         |       |       |       |       |       |
| 32     | 813   |                         |       |       |       |       |       |
| 36     | 914   |                         |       |       |       |       |       |
| 42     | 1067  |                         |       |       |       |       |       |
| 48     | 1219  |                         |       |       |       |       |       |
| 6"~8"  |       | Internal FBE Coating    |       |       |       |       |       |
| 6"~48" |       | Internal Liquid coating |       |       |       |       |       |
| 6"~48" |       | External coating        |       |       |       |       |       |



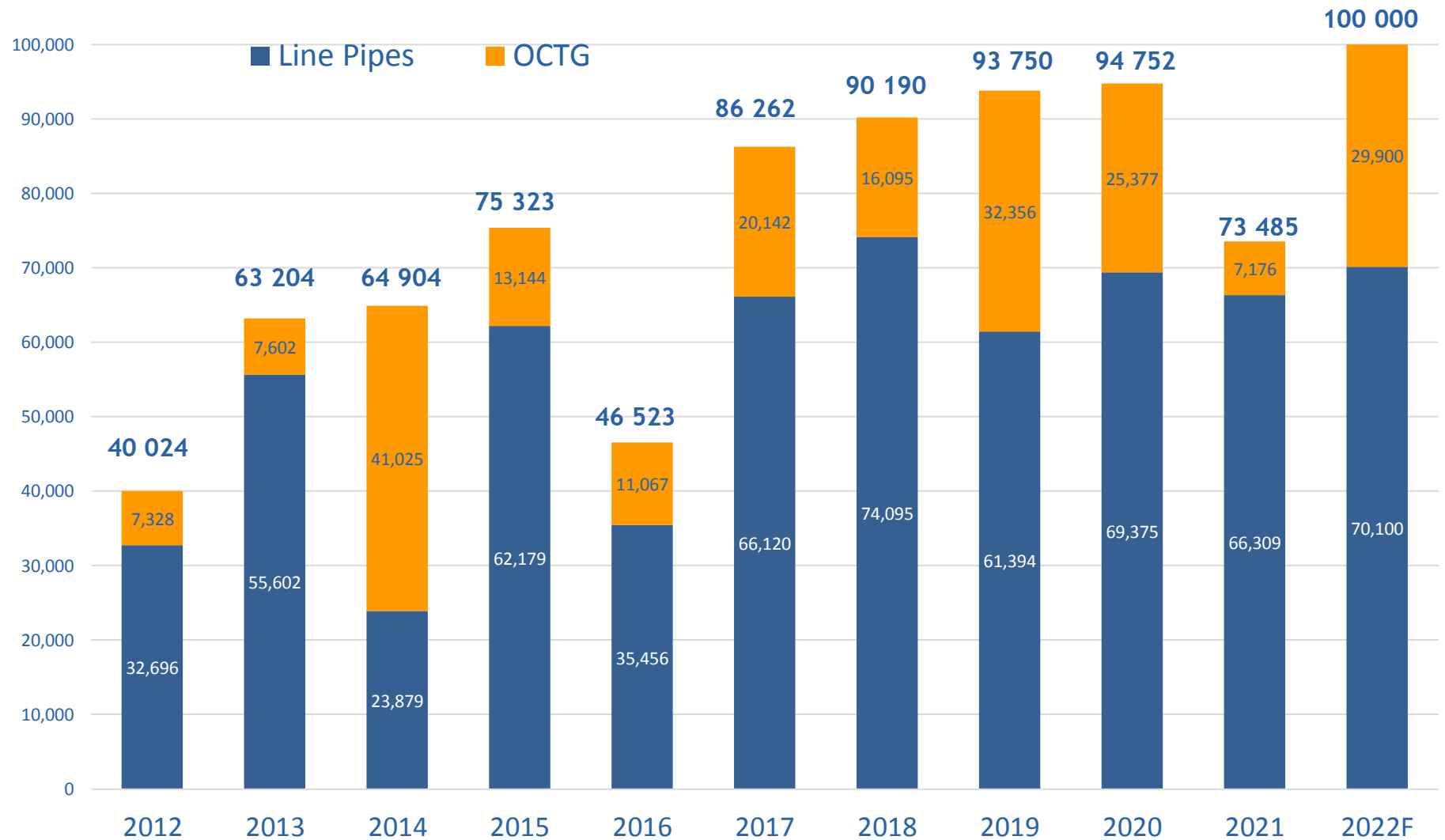
## TMK GIPI Main Clients in domestic market

- Petroleum Development of Oman (PDO)
- OQ:
  - Oman Oil Exploration and Production (OOCEP)
  - Oman Gas Company (OGC);
  - Oman Oil Refineries and Petroleum Industries Company (ORPIC)
  - Oman Oil Company (OOC)
- Occidental Petroleum Oman
- Daleel Petroleum
- BP Oman
- CCED Oman
- Petrogas E&P





## Sales by Product in Metric Tons





## Major Projects Executed

| Year        | Client/Project                           | Size/ Grade                        | Tons/Km    |
|-------------|------------------------------------------|------------------------------------|------------|
| 2012        | PDO – Barik Project, Oman                | 20" x 8.9 /API 5L X60 Sour         | 17.500/158 |
| 2012        | PETROPBEL, Egypt                         | 10" x 15.1 mm / API 5L Gr.B        | 2.900/30   |
| 2013        | OOCEP/ABU TUB. BLOCK 60, Oman            | 16" & 8" / API 5L X60 Sour         | 18.400/170 |
| 2013        | OOCEP/MUSAND GAS PLANT, Oman             | 12" / API 5L X60 Offshore          | 2.000/20   |
| 2012 - 2013 | DALEEL PETROLEUM , Oman                  | 8",10",16"/ API 5L X52 Sour        | 10.000/200 |
| 2013 - 2014 | TMK IPSCO,USA - Projects                 | 9 5/8"24"/API 5L K55, X65, API 5CT | 38.400/445 |
| 2014        | DODSAL /MASDAR - UAE                     | 8", / API 5L X65 Sour              | 2.300/42.9 |
| 2014        | SAUDI CHEVRON/ALGHANIM, Kuwait           | 20" / API 5L X42 Sour              | 7.500/63   |
| 2014        | PDO/LARSEN&TUBRO – Yibal 3 Project, Oman | 8", 14", 16" / API 5L X52 Sour     | 1.460/17.3 |
| 2014 - 2015 | BRITISH PETROLEUM, Oman-Khazzan, Oman    | 10", 12"/ API X65 Sour & Non Sour  | 5.500/110  |
| 2014 - 2015 | DALEEL PETROLEUM, Oman                   | 16"/ API 5L X52 Sour               | 760/7      |
| 2014 - 2015 | OXY- Oman                                | 10.75", 0.436 X52 MS               | 645/9      |
| 2014 - 2015 | PDO – Kauther Project, Oman              | 10"-12", X65 SOUR                  | 14.950/206 |
| 2014 - 2015 | PDO – Fahud West Loopline Project, Oman  | 12"/ API 5L X65 Sour               | 3.950/46   |
| 2015        | SHELL, Iraq – Majnoon Project            | 3LPP Coating for 8" pipes          | 1.570/21.5 |
| 2015        | ORPIC/GPS – MSP Project, Oman            | 10", 18"/ API 5L X65               | 30.700/248 |
| 2015        | PDO – Likhwair Fahud Project, Oman       | 24"/API X60 Sour                   | 8.780/62   |
| 2015-2016   | PDO/Petrofac – Rabab Harweel, Oman       | 8-20" / API 5L X65 Sour            | 5.820/49   |
| 2016        | PDO/GALFAR – North Shuaiba, Oman         | 10" - 20" / API 5L X60 Sour        | 4.085/43   |



## Major Projects Executed

| Year        | Client/Project                         | Size/ Grade                      | Tons/Km       |
|-------------|----------------------------------------|----------------------------------|---------------|
| 2016        | PDO/AL TURKI – Dhabbi, Oman            | 12" / API 5L X60 Sour            | 3.540/46      |
| 2016        | PDO/AL TURKI – Khulud, Oman            | 18" / API 5L X60 Sour            | 4.265/37      |
| 2016        | DALEEL PETROLEUM, Oman                 | 8", 16"/API 5L X52 Sour          | 4.535/53      |
| 2016        | OGC/Jindal – Duqm, Oman                | 3LPE & Int Coating for 36" pipes | 76.000/228    |
| 2016        | PDO/Vallourec – Rabab Harweel, Oman    | 3LPE Coating for 6" - 14" pipes  | 4.730/74      |
| 2016 - 2017 | PDO/AL TURKI– Maurid, Oman             | 8" ~ 24" / API 5L X52-X60 Sour   | 9.275/73      |
| 2016 - 2021 | PDO – Flow lines bare & FBE/3LPE, Oman | 6" – 14" / API 5L X42/X52 Sour   | 208.980/ 9396 |
| 2012 - 2021 | PDO/SUMITOMO – Req for Casing, Oman    | 9 5/8" - 20" / API 5CT K55       | 156.280/ 2385 |
| 2017        | PDO Tayseer, Oman                      | 12" / API 5L X60 Sour            | 3.040/54      |
| 2017        | ORPIC/PLL – LIWA Plastic Project, Oman | 14" / API 5L X65 Sour            | 22.000/300    |
| 2018        | PDO (Likhwair), Oman                   | 20-24" / API 5L X65 Sour         | 13.970 / 107  |
| 2018        | PDO/Gerab, Oman                        | 3LPE Coating for 8" - 16" pipes  | 3250 / 69     |
| 2018 - 2021 | PDO, Oman                              | 3LPE Coating for 6" pipes        | 9.040 / 402   |
| 2019        | PDO (Sayalah – Rima), Oman             | 10-12" / API 5L X60 Sour         | 5900 / 107    |
| 2019        | DALEEL PETROLEUM, Oman                 | 8", 10", 16"/API 5L X52 Sour     | 1.925/ 20     |
| 2019        | BOGS (Qarat Al Milh project), Oman     | 10"/API 5L X65 Sour              | 2.075/ 51     |
| 2019 - 2020 | Petrofac/PDO (Marmul Polymer), Oman    | 6" -24"/API 5L X52/X60 Sour      | 5.170/125     |
| 2019        | OOCEP, Oman                            | 10"/API 5L X52 Sour              | 512/ 11       |
| 2019        | Qatar Petroleum, Qatar                 | FBE Coating for 6" - 8" pipes    | 670 / 21      |
| 2020        | OQ/OOCEP (Bisat Phase 2), Oman         | 16" / API 5L X60 Sour            | 12.900 / 128  |

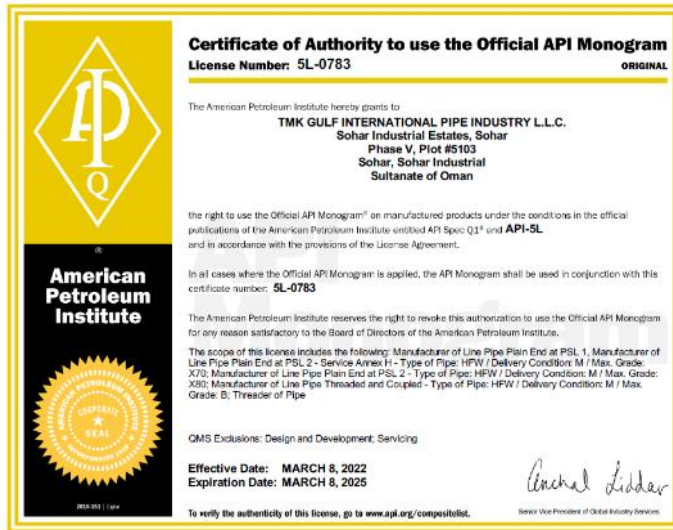


## Major Projects Executed

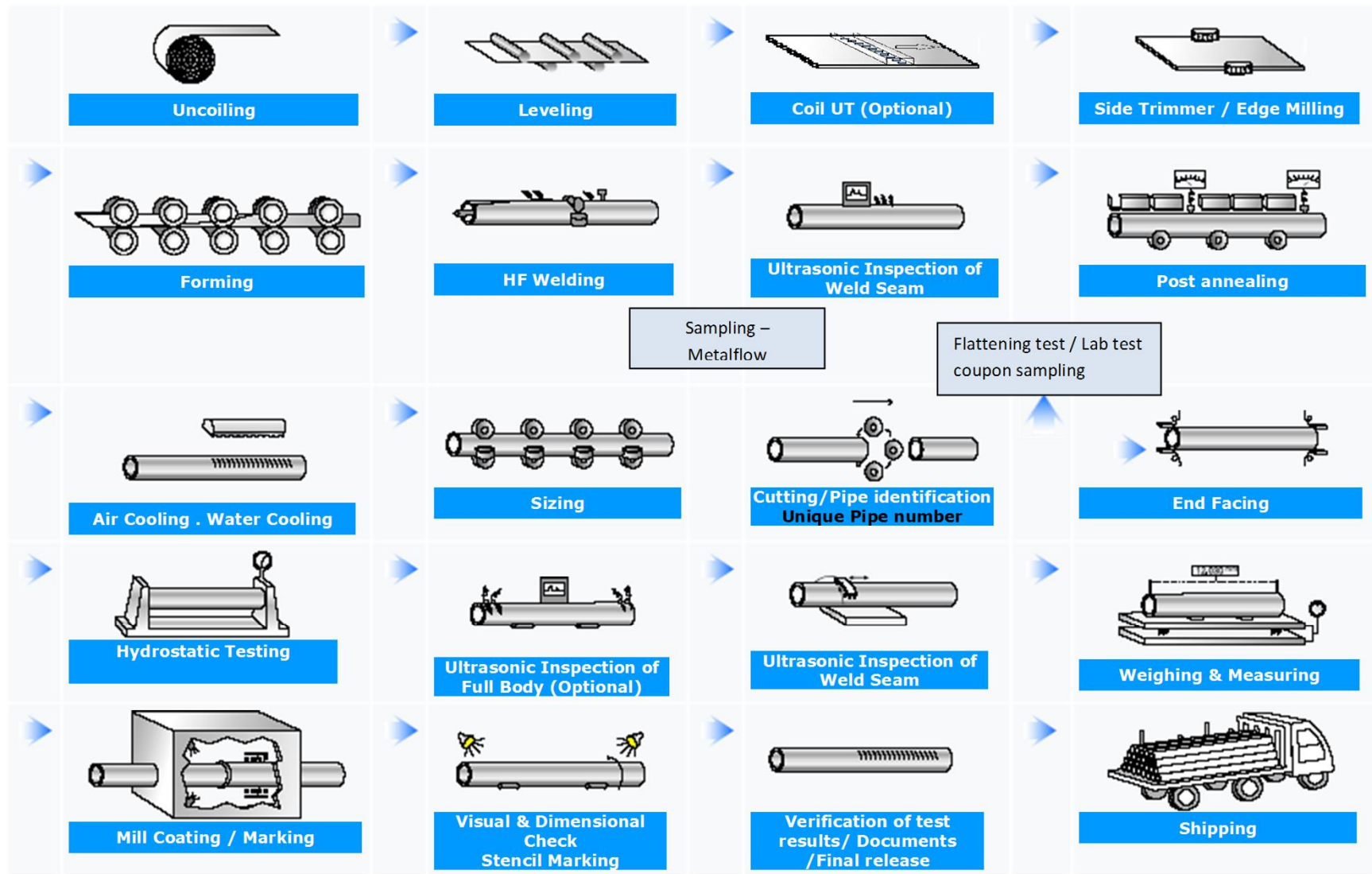
| Year                | Client/Project                              | Size/ Grade                    | Tons/Km    |
|---------------------|---------------------------------------------|--------------------------------|------------|
| 2020                | PDO – Rima Water Treatment, Oman            | 24" / API 5L X52 Sour          | 1.385/13   |
| 2020                | PDO – Raba, Oman                            | 10" – 12" / API 5L X60 Sour    | 430/10     |
| 2020                | PDO/ AL TURKI – Nimr E, Oman                | 20"/API 5L X42 Sour            | 1.985/23   |
| 2020                | PDO/STS – Burhan, Oman                      | 8" – 12"/API 5L X60 Sour       | 5.000/68   |
| 2020                | PDO/STS – SSF EDF, Oman                     | 10" – 18"/API 5L X52/X60 Sour  | 4.600/61   |
| 2020                | Vietsovpetro – OCTG, Vietnam                | 20" / API 5CT                  | 533/2      |
| 2020 - 2021         | OQ/OOCEP (GPP to Bisat), Oman               | 10" / API 5L X60 Sour          | 1.945/34   |
| 2021                | PDO/ AL TURKI – Qahariri, Oman              | 16" / API 5L X60 Sour          | 2.540/ 25  |
| 2021                | OQ/OOCEP (Bisat to Inter), Oman – 5Year LTA | 10"-24" / API 5L X60 Sour      | 3.100/ 23  |
| 2021                | PDO – Al Burj, Oman                         | 12" / API 5L X60 Sour          | 1.505/ 19  |
| 2021                | PDO – MMNW, Oman                            | 8" – 10"/API 5L X42/X60 Sour   | 1.495/ 49  |
| 2021                | PDO – Natih West, Oman                      | 8" – 12" / API 5L X60 Sour     | 3.180/ 62  |
| 2021                | PDO – Nimr E MSV, Oman                      | 12" / API 5L X52 Sour          | 490/ 12    |
| 2021                | PDO – Shamar/Multiple, Oman                 | 6" – 20" / API 5L X42-X60 Sour | 6.300/ 126 |
| 2021                | PDO – Greater, Oman                         | 8" - 10" / API 5L X60 Sour     | 3.555/ 62  |
| 2021                | PDO – Hazar, Oman                           | 12" / API 5L X42 Sour          | 1.400/ 34  |
| 2021 - 2022         | Butting/ PDO – DSS                          | 8" / 3LPP coating DSS pipes    | 2.950/ 100 |
| 2021 – 2022 ongoing | Jiuli/PDO - DSS                             | 8" / 3LPP coating DSS pipes    | 5.900/ 200 |
| 2021 – 2022 ongoing | PDO – Sehrul                                | 16" – 20" / API 5L X60 Sour    | 5.760/ 37  |
| 2022 ongoing        | PDO – Shamar/Multiple, Oman                 | 6" – 16" / API 5L X52-X60 Sour | 7.100/ 105 |



# Certification



# HF-ERW Pipe Manufacturing Process





## Coil UT Machine



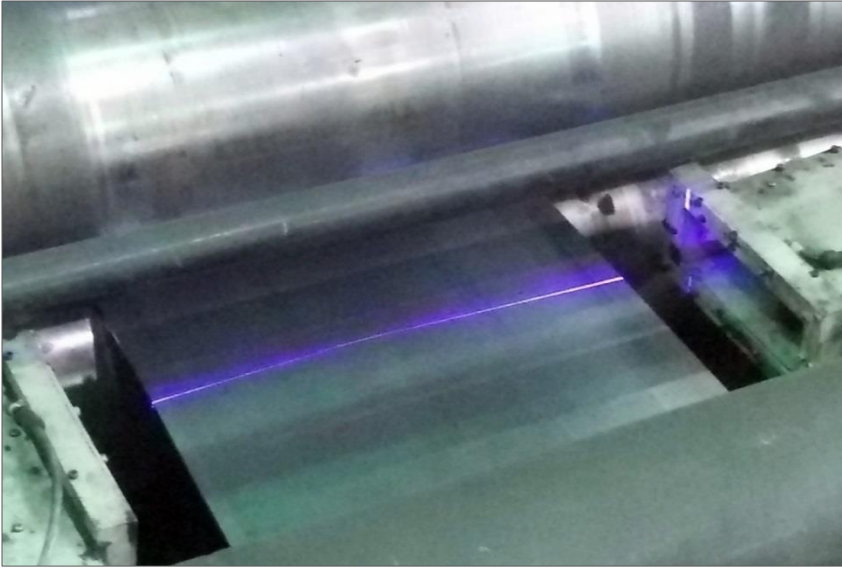
### **The system identifies:**

- Å Number of Probes : 40
- Å Probe Size: 30.03mm X 25.03mm
- Å Coil width coverage 500 to 875 mm
- Å A-scan & C-scan online monitoring
- Å To detect Laminar Type Discontinuity

### **Skelp Edge Monitoring System**

- Å The equipment is the pulse echo straight beam type.
- Å The system is a having 40 channels i.e. 40 probes for the body and Edges covering 100% with 10% overlap.
- Å The system is capable to test 100 % coil area for having width up to 875 mm.
- Å Automatic Audio Alarm/Light signal Paint Spray if discontinuity goes beyond Calibration Limit 80% of FSH( reference to 6.0 mm T/2-Flat Bottom Hole).

## Forming Process



Å Edge milling - both sides of strip to maintain skelp width

Å Laser technology to control skelp width and edge condition

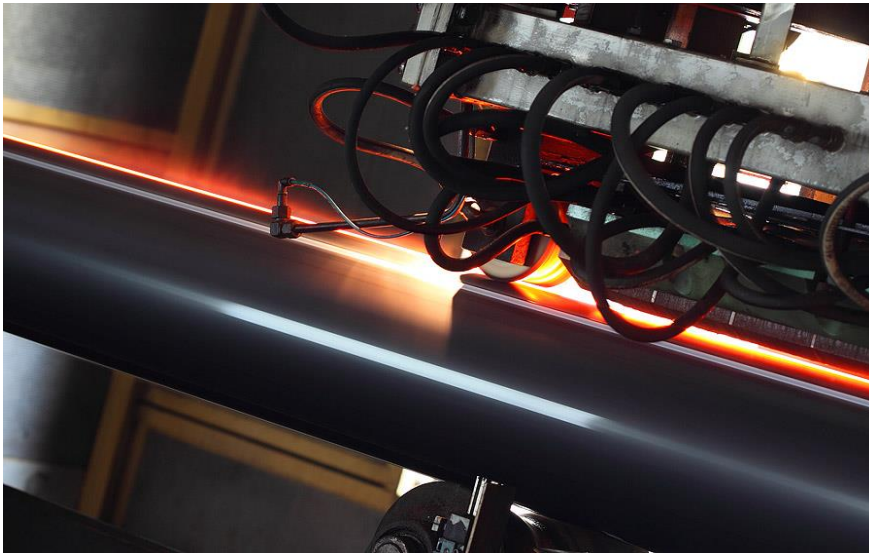
Å Pipe forming i to convert strip pipe shape with various forming rollers





# Welding Process

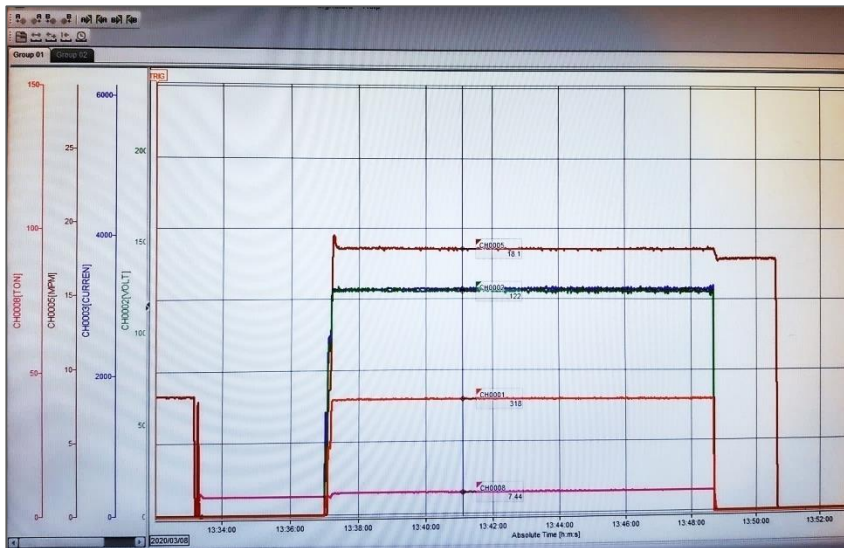
## Advanced Electric Resistance Welding (HF-ERW) method



• 200 kHz High frequency Electric resistance welding using contact tip

• Welding parameters (Speed, Power, Squeeze force) - Continuous electronic process control (CEPC)

• Trigger alarm, auto mark system for out of range of established welding system





## Weld Seam Heat Treatment



5 Stages of direct contact heating inductor to cover all thickness range. Capacity Max 1200°C

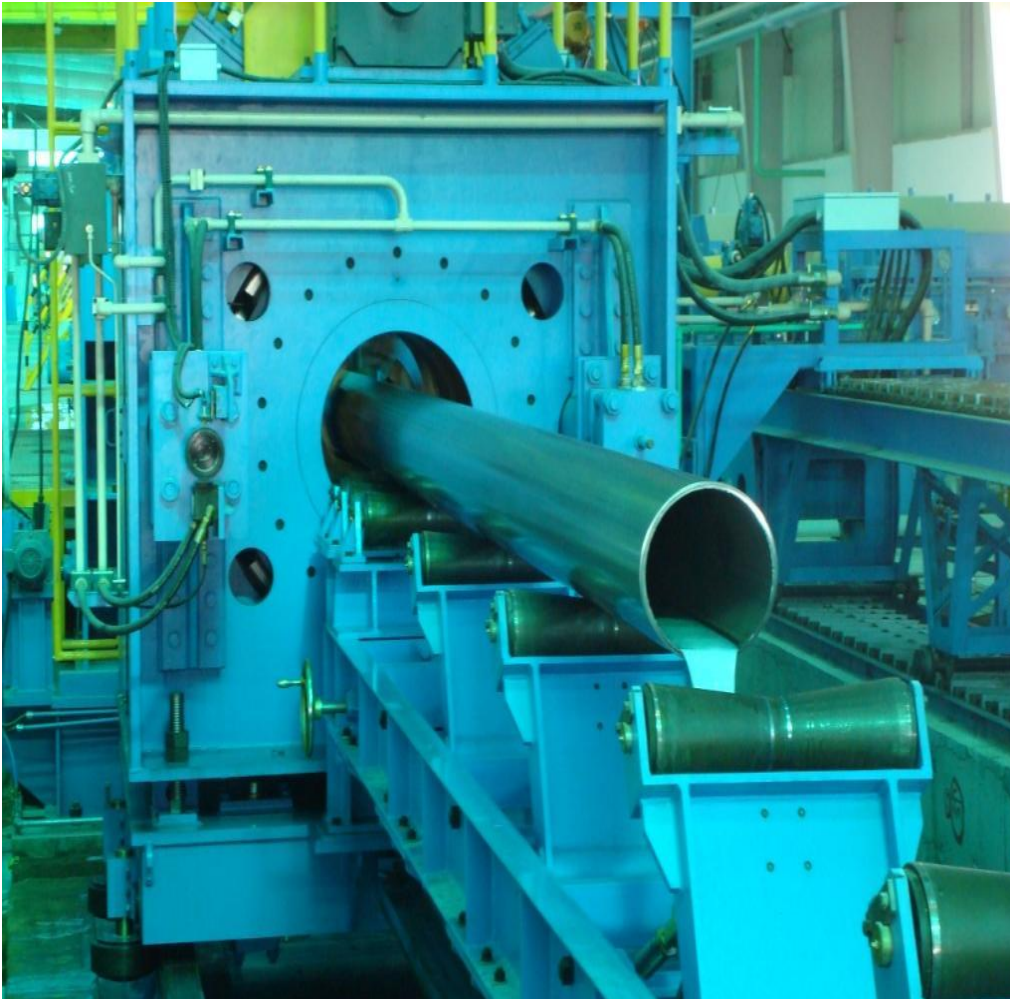
Automatic Weld Seam Tracking System to position the heating inductor on weld seam

Chart recorder for continuous temperature recording.

Trigger alarm /Auto mark system for out of range temperature control



## *Sizing and Cut-off Machine*



• Automatic flying cut-off machine with a capability to cut 5M ~ 18.3 M in length

• Adjustable sizing stand to maintain the pipe Diameter, roundness and straightness

• Auto ink jet mark system to mark the pipe number and pipe details on individual pipes for traceability



# Hydrostatic Test



• Capacity Max 500 Bar/ 7000PSI

• Recording of pressure and holding time with unique pipe number for each pipe tested

• On line monitoring of test using high resolution camera



## Weld & Full Body Ultrasonic Test



- Å Automatic Seam Tracking System to ensure positioning of UT Probes on weld seam to 100 % coverage
- Å Weld seam UT probes for outside, inside and mid wall defect detect
- Å Full-body UT for laminar imperfection with 100 % surface coverage
- Å Auto alarm/ paint spray mark on any indication
- Å Computer generated report for each pipe along with scan record

# Laboratory & Testing

## ISO 17025:2017 Accredited Lab for Mechanical and Corrosion Testing

In house Lab equipped to perform  
all test relevant to HFW pipes and  
Coating

1. TENSILE TEST
2. IMPACT TEST
3. MACRO/MICRO
4. HRADENSS (Vickers,  
Rockwell)
5. CHEMICAL- Spectrometer
6. HIC/SSC
7. DWTT
8. PEEL TEST
9. CD / HOT WATER TEST
10. CURE TEST (DSC)
11. FLEXIBILITY TEST
12. INDENTATION TEST

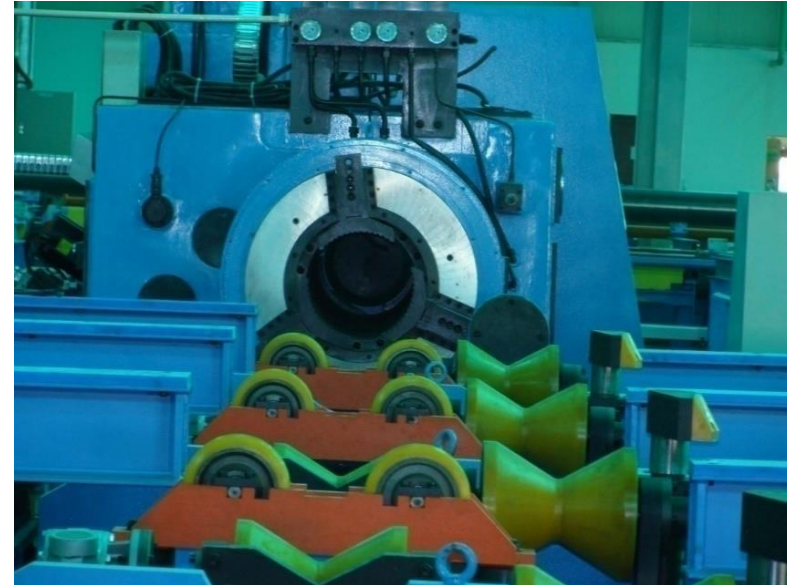




## Threading Facility

### **OCTG Threading Facility for sizes up to 13 3/8"**

- Ability to thread API connections (BC, LC & SC)
- Ability to thread TMK Premium connections.



### **Premium Connections Licensing Centre**

- Managing and expanding of TMK Premium Connections Licensees network in MENA.
- Sales / Rental of proprietary gauges and cutting insert of TMK Premium connections.





# Pipe Inspection



• Dimensional and visual inspection

• Stencil marking for traceability



## *Pipe Coating Mill (6 5/8" ~ 48")*



GIPI's coating facility is capable of providing external (3LPE, 3LPP, FBE) and internal (Liquid Epoxy) pipe anti-corrosion coating services for 6~48 pipes.

In 2017, TMK GIPI commissioned Internal FBE Powder Coating for sizes 6 & 8.





# Integrated Handling And Storage Capabilities (One Stop Delivery)



## Research & Development



R&D in Skolkovo,  
Moscow

Skolkovo Centre focus on developing advanced technologies in the areas of oil and gas exploration and production, transportation of hydrocarbons, as well as finding new solutions to improve energy efficiency in the iron and steel industry.



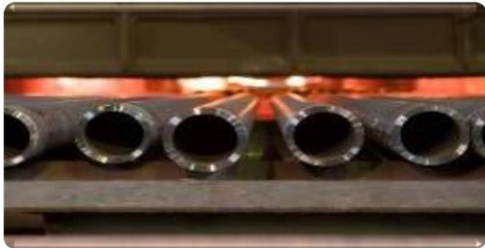
Rosniti, Chelyabinsk,  
Russia

RosNITI, Russia's only scientific research institute specializing in pipe production technology, has been part of the Company's structure since 2007. The center consists of the Russian Research Institute for the Tube and Pipe Industries and the research divisions of the Company's plants laboratories.



# TMK Solutions

➤ One producer with complete package of service solution for the customer



**Technical assistance in product selection**

**Pipes and Connections**

**Accessories & Rental**



**License Network**

**Logistics Support**



**Running Services**

**Technical Support**

**Casing & Completion acc.**



## *In Country Value (ICV)*

### Seven Key Elements to drive ICV



1) Investment in fixed assets

**Over USD 115M**



2) Nationalization of its workforce (Omanisation)

**Over 40%**



3) Training of Nationals

**Over 5,000 Man-Hours**



4) Local sourcing of goods

**Over USD 39M in 2016-2020**



5) Local sourcing  
6) Development of national suppliers

**Working with over 125 SME's**



7) Support for national training and R&D

**Scholarships in technical universities**

**TMK GIPI is committed to develop investments in Oman by providing employment opportunities, youth development, SME opportunities, using local labor and goods, and working together for the betterment of Oman.**

innovation

Thank You For  
Your Attention!

quality

performance

[www.tmk-gipi.co.om](http://www.tmk-gipi.co.om)  
[sales@gipi.co.om](mailto:sales@gipi.co.om)

