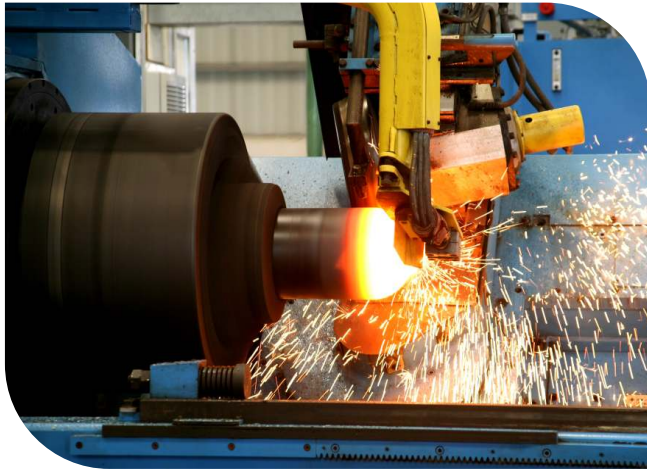




*Live A Green World*



**EURO INDIA CYLINDERS LIMITED**

# EURO INDIA CYLINDERS LIMITED

## E I C L



State-of-the-art manufacturing unit located at Kandla Special Economic Zone, Gujarat, India.

### Manufacturers of High Pressure Gas Cylinders

Euro India Cylinders Limited (EICL) is a EURO Group venture manufacturing High Pressure Cylinders for CNG on board Application for Automobiles, Cascades and Cylinders for Industrial gases at its plant at Kandla Special Economic Zone, (KASEZ) Gandhidham, Kutch Gujarat, India.

EICL has installed capacity to manufacture 500,000 Seamless Carbon Steel Cylinders annually, employing "State of the Art" Leifeld German technology.

EICL Cylinders are subjected to Stringent Quality Control Online Inspections to ensure 100% Fusion, Ultra Sonic Sensing to detect Invisible defects, Hardness, Hydro Stretch, Air leakage and Pressure Cyclic Testing and final product is tested at appropriate kgf/cm<sup>2</sup> pressures. Random Bust Test, Bonfire Test and Bullet penetration Test are conducted to meet Statutory Safety Standards.

#### **Vision**

Build a conglomerate and to be the leader in its chosen business area, create an organization that all its constituents are proud to be associated with, and set benchmarks that will become the standard for others to emulate and all this through ethical business practices.

#### **Mission**

Euro Group is committed to serve society by providing quality products and services and is dedicated to long term growth and will practice highest standards of integrity and care for people.

#### **Philosophy**

Euro Group continues to practice the best standard of values and ethical business conduct.

## PRODUCTS

### CNG Cylinders on Board Application

Type 1 Cylinders are in the range Outer Diameters of 232 mm to 356 mm and 406 mm with length varying from 600 mm to 2500 mm and having Water equivalent capacity of 22 liters to 200 liters.



### CNG Cylinders Cascades

CNG Cylinder Cascades for the storage and transportation | mobile gensets and variety of applications. These cascades come with various water capacities and storage of the gas from on-line stations to daughter stations, pressures to meet specific customer requirements. These transportation to the CNG dispensation site, cascades are suitable for mounting on LCVs, and transportation to the CNG dispensation site.

### Cylinders for Compressed Industrial Gases

Our High-pressure Industrial gas cylinders – for oxygen, hydrogen, nitrogen, argon, helium, air etc. are designed and manufactured to withstand rough handling. Industrial Cylinders are made of high-quality seamless steel tubes using state-of-the-art CNC technologies and treated with appropriate HQT process and subjected to the highest quality control.



Black

Oxygen



Black & Silver

Carbon Dioxide



Signal Red

Hydrogen



Middle Brown

Helium



Peacock Blue

Argon



Black & White

Medical Oxygen



French Grey & Black

Nitrogen



French Blue

Nitrous Oxide

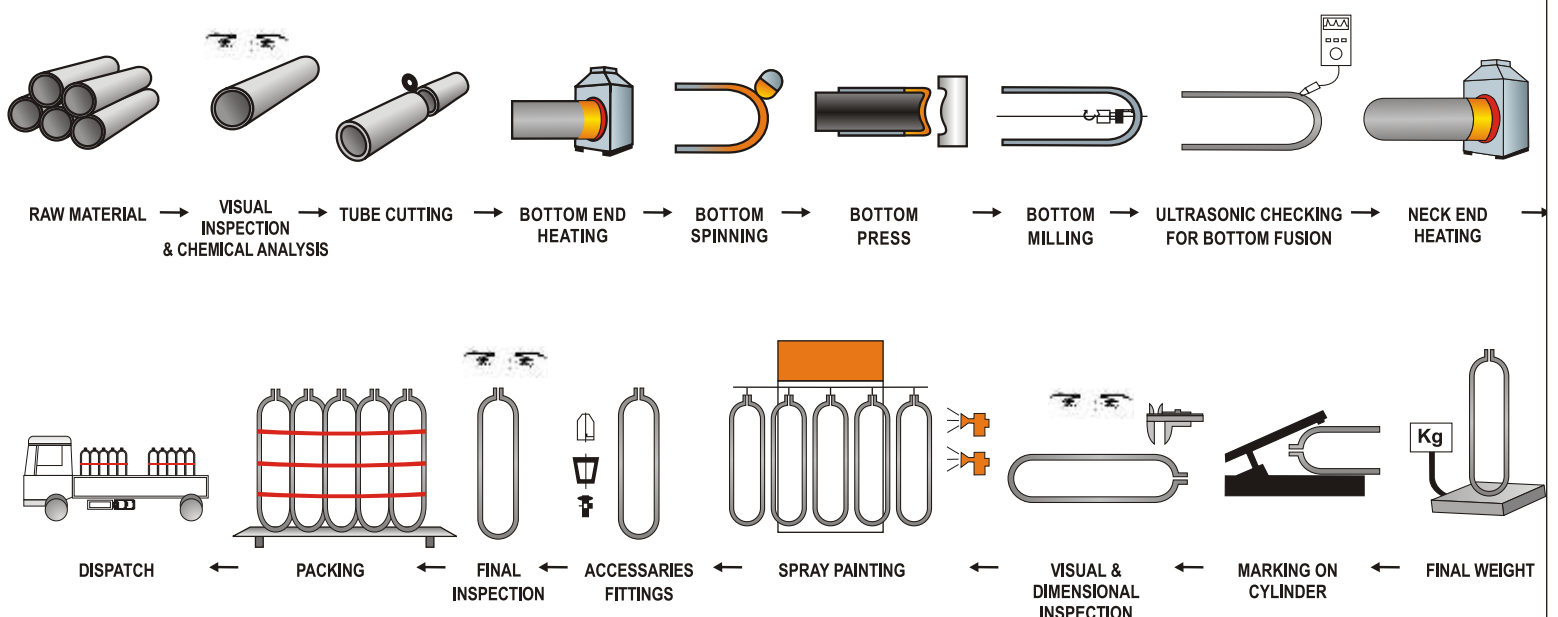


## SPINNING PROCESS



The tube is taken for the bottom spinning process where one end of the seamless tube is heated in the Induction furnace up to 1200° C & then fed into the high speed CNC operated Hot Spinning Machine to get desired bottom shape. The world class German machines 'Leifeld' installed at our plant ensure that the cylinder fusion takes place at the centre, joints are leak free and that proper dimensional tolerances and dome shape is maintained at all times.

## MANUFACTURING PROCESS

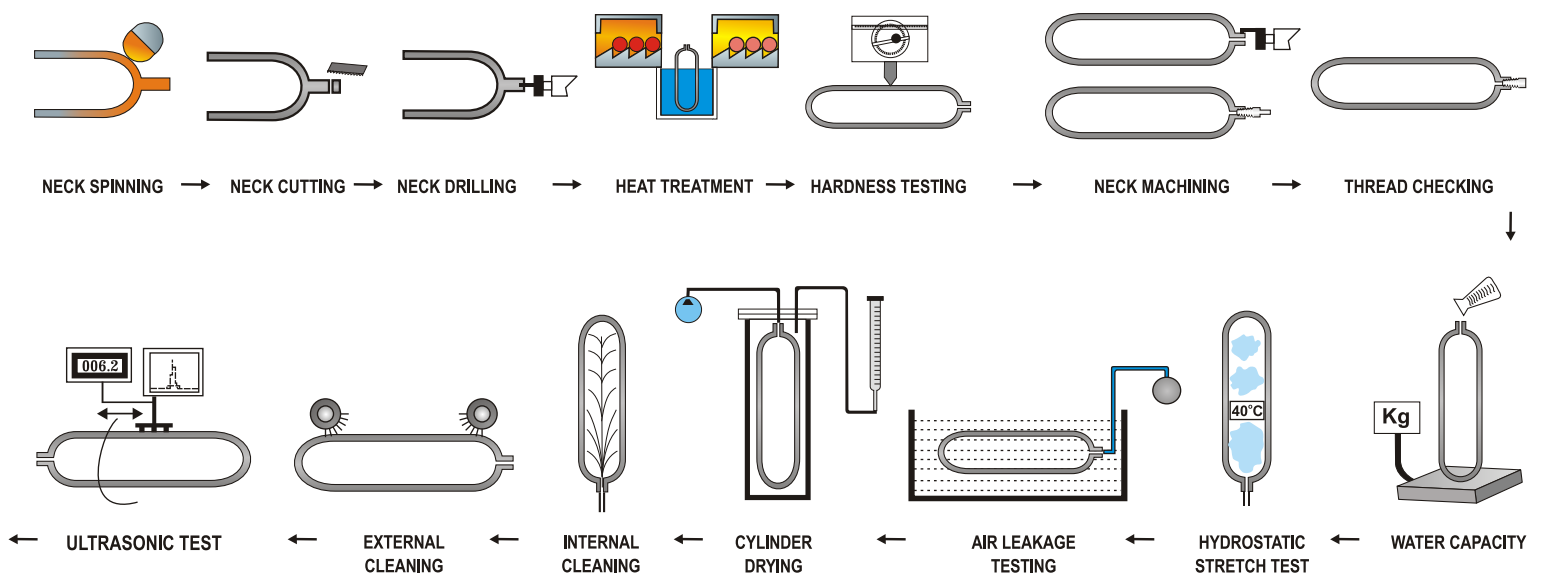


## HQT PROCESS



The cylinder is processed through a LPG fired heat treatment furnace 'Wesman' to ensure proper strength of material. The hardening, quenching & tempering operations are done at continuous walking beam type furnace with maintenance of proper concentration of polymer quenchant shell. The proper Temperatures maintained at various levels are as follows:-

- At Hardening Furnace  $870^{\circ}\text{C}$  to  $900^{\circ}\text{C}$
- At Tempering Furnace  $560^{\circ}\text{C}$  to  $600^{\circ}\text{C}$



## QUALITY CONTROL

Every Euro Cylinder comes with the assurance of an in house quality controlled environment, checked and rechecked for your safety and use. Backed with the latest and best equipment worldwide, the end product is one that has been through stringent excellence processes and comes with the guarantee of brand EURO.

EICL Cylinders are subjected to Stringent Quality Control Online Inspections to ensure 100% Fusion, Ultra Sonic Sensing to detect Invisible defects, Hardness, Hydro Stretch, Air leakage and Pressure Cyclic Testing. The final product is tested at appropriate kgf/cm<sup>2</sup> pressures. Random Bust Test, Bonfire Test and Bullet penetration Test are conducted to meet Statutory Safety Standards.



**EICL can manufacture and supply CNG Cylinders with following National & International Standards**





## CYLINDER TECHNICAL DETAILS

CNG Onboard Cylinders WORKING PRESSURE - 204 kgf/cm <sup>2</sup> TEST PRESSURE - 340 kgf/cm <sup>2</sup>					
Water Capacity ltr.	Diameter 'D' mm	Lenght 'L' mm	Weight Approx (kg)	GAS Capacity Cu.m	Gasoline Equivalent ltr
21.5	232	695	29	5.4	6.8
25	232	800	34	6.3	7.9
50	232	1465	55	12.5	15.6
24	267	605	31	6	7.5
30	267	725	36	7.5	9.4
35	267	825	40	8.8	11
40	267	925	43	10	12.5
45	267	1025	49	11.3	14.1
50	267	1125	53	12.5	15.6
60	267	1325	62	15	18.8
75	267	1625	71	18.8	23.5
80	267	1720	76	20	25
45	316	780	49	11.3	14.1
50	316	850	52	12.5	15.6
55	316	920	57	13.8	17.3
60	316	990	61	15	18.8
65	316	1060	64	16.3	20.4
70	316	1130	69	17.5	21.9
75	316	1200	72	18.8	23.5
80	316	1270	76	20	25
90	316	1410	84	22.5	28.1
100	316	1555	92	25	31.3
50	324	830	61	12.5	15.6
55	324	900	64	13.8	17.3
60	324	965	74	15	18.8
65	324	1035	78	16.3	20.4
75	324	1170	82	18.8	23.5
80	324	1235	92	20	25
90	324	1370	98	22.5	28.1
100	324	1505	103	25	31.3
65	356	885	69	16.3	20.4
70	356	940	76	17.5	17.6
75	356	995	80	18.8	23.5
80	356	1050	84	20	25
90	356	1160	91	22.5	28.1
100	356	1270	99	25	31.3

CNG Cylinder Cascades							
Total Storage Capacity		No. of Cylinders Per Cascade (NOS)	Overall Dimensions			Cylinders Water CAP (Ltr.)	Storage Pressure (kgf/cm <sup>2</sup> )
GAS CAP. (Cu.m.)	WATER CAP. (Ltr.)		LENGTH 'L' (mm)	WIDTH 'W' (mm)	HEIGHT 'H' (mm)		
364	1120	40	3397	1037	1237	28	325
140	934	20	1255	1640	1390	46.7	150
520	2000	40	2011	1740	1400	50	260
800	3200	40	2341	2010	1675	80	250
392	2616	56	3011	1640	1894	46.7	150
780	3000	60	3500	1750	1600	50	260
420	2802	60	2485	1640	1637	46.7	150



## **EURO INDIA CYLINDERS LIMITED**

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### **Factory Location:**

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