



EQUIPMENT CATALOGUE

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CERTIFICATES





ABOUT US

Koyuncu Ticaret Anonim Şirketi entered the sector in 1977 as an industrial gas producer and supplier. Focusing on welding gas mixtures in the 1990s, it served gas companies all over Turkey in a leading position in this field for many years.

Koyuncu, which turned its main activity into gas equipment import and export in the early 2000s, has Turkey representation of many international companies. In addition to gas equipment, it also sells liquefied industrial gas to neighboring countries with semi-trailer and ISO tanks.

Koyuncu has more than 80 expert personnel, of which 15 are engineers. "Special and High Purity Gases Facility" of our company, which has a modern production area of 5 thousand square meters in Dilovası-Gebkim Chemists Specialized Organized Industrial Zone, as well as its head office of 2 thousand square meters in Dudullu Organized Industrial Zone, meets the demands of not only our country but also abroad.

In order to increase our production capacity in line with our export targets increasing every year, in our 3rd facility of 5 thousand square meters, which we started to build in Dilovası Organized Industrial Zone and will be operational in 2022, robotic MIG welding systems, laser cutting, CNC and TIG welding lines, as well as assembly, hydrostatic test systems, automatic sandblasting and electrostatic powder coating conveyors will take place. With our new facility, which will be the first and full-range cylinder renewal center in Eastern Europe, we aim to serve not only to Turkey but also to neighboring countries.

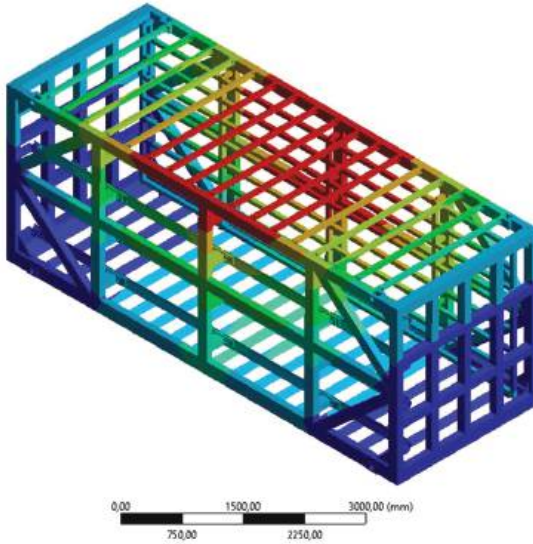




Design & Engineering

We employ engineers specialised in welding procedures, gas flows, thermo dynamics and quality control. We calculate, engineer and simulate every detail before production.

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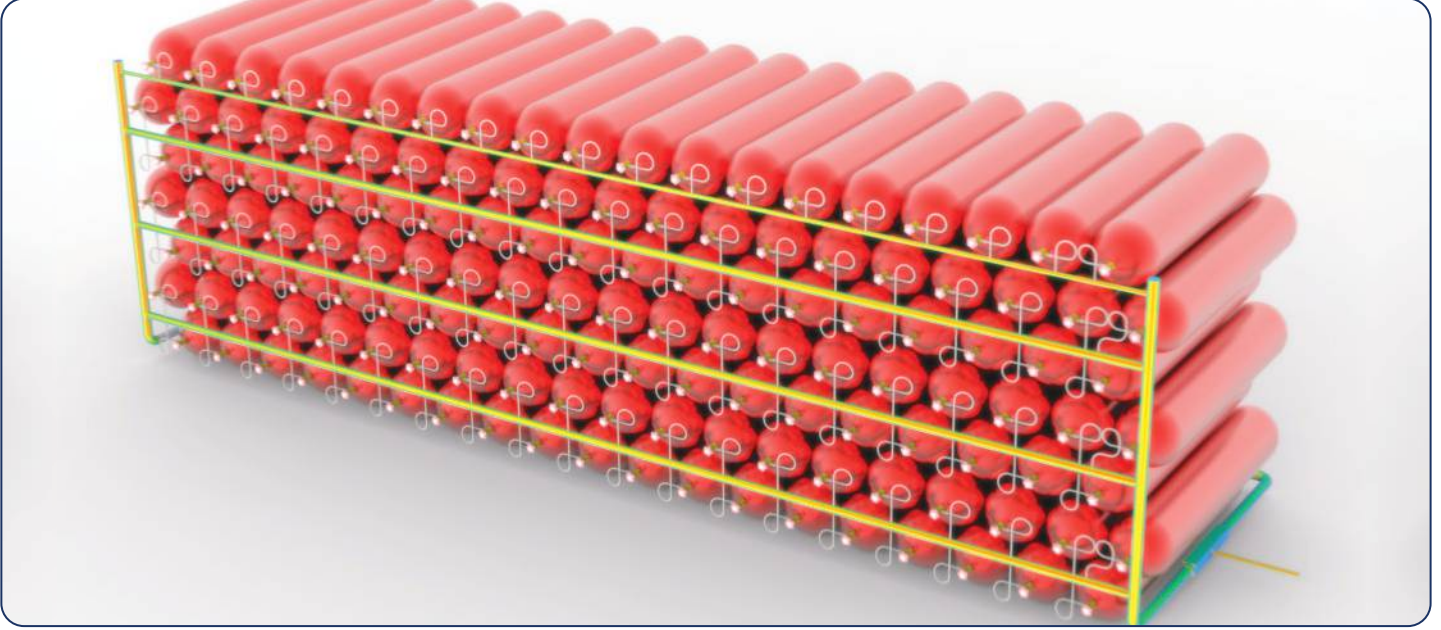


Frame Analysis

Bundle frames are calculated and designed for the optimum weight /endurance ratio. We make sure that our MCPs are not unnecessarily over weighted while they are durable enough to work under severe conditions for an extended period of time.

Gas Flow Analysis

We don't produce our manifolds as we feel like it. We calculate and engineer every detail and design for the optimum gas flow. Pipe diameters, materials, valves, elbows, diameter changes, flow direction changes are all software simulated to allow fastest filling and discharge while ensuring that pipes and cylinders are within the pressure and temperature safety limits.



Production

Our production facilities are located in Istanbul and Kocaeli, Turkey. Production processes are supervised and managed as per ISO 9001 regulation. All details from material acceptance until the product shipment is being recorded on our ERP system providing traceability for all materials and production cycles.



Quality Control

Non Destructive (ND) Testing of Welding Joints

Our entire welding process both for frames and pipes are ND tested. We make sure that all welding joints are free of cracks, porosity, undercut, slags and with proper welding penetration.



Hydrostatic Testing of Cylinders and Manifolds

All manifolds are hydrostatically tested at 1,5 times the work pressure. As a TPED certified cylinder testing center, we have the ability to test and refurbish gas cylinders. Our sand blasting and electrostatic powder paint facility make your cylinders almost as good as their first day.





Leak Testing

All MCPs and MEGCs are leak tested at work pressure of the product. We fill them up to work pressure and keep them under observation for 24 hrs before shipment.



Documentation and Traceability

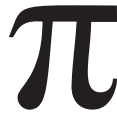
All of our products are shipped with our certification and documentation package where all production tests and controls, materials used are well documented. All production details are archived in our systems forever.

STEEL CYLINDERS

Our company, which is a leader in gas equipment, operates as the sole authorized dealer of approved high quality steel cylinder manufacturers. We respond to the demands of our customers with products of many brands produced according to European norms.

USAGE AREAS

- ▶ Medical Purpose Breathing Cylinders
- ▶ Fire Fighting Cylinders
- ▶ Carbonated Beverage CO₂ Cylinders
- ▶ Industrial Gas Cylinders
- ▶ Incubator Cylinders
- ▶ First Aid Kit Cylinders



DIMENSIONS

VOLUME	WORKING / TEST PRESSURE	HEIGHT	DIAMETER	WALL THICKNESS	WEIGHT	MATERIAL	STANDARD	VALVE INLET
150 liter	200 / 300 Bar	1830 mm	356 mm	7.7 mm	144 kg.	34CrMo4	ISO 9809-1	25 E
80 liter	300 / 450 Bar	1780 mm	267 mm	7.5 mm	105 kg.	34CrMo4	ISO 9809-2	25 E
67 liter	166 / 250 Bar	1500 mm	267 mm	5.9 mm	76 kg.	37 Mn	ISO 9809-1	25 E
50 liter	300 / 450 Bar	1515 mm	229 mm	6.3 mm	66 kg.	34CrMo4	ISO 9809-2	25 E
50 liter	230 / 345 Bar	1490 mm	229 mm	5.6 mm	58 kg.	34CrMo4	ISO 9809-1	25 E
50 liter	166 / 250 Bar	1460 mm	232 mm	5.0 mm	55 kg.	37 Mn	ISO 9809-1	25 E
50 liter (H ₂)	200 / 300 Bar	1500 mm	229 mm	6.3 mm	70 kg.	34CrMo4	ISO 9809-1	25 E
50 liter (C ₂ H ₂)	19 / 60 Bar	1359 mm	230 mm	3.0 mm	57,7 kg.	37 Mn	ISO 3807	25 E
40 liter	166 / 250 Bar	1300 mm	219 mm	5.2 mm	48 kg.	37 Mn	ISO 9809-1	25 E
40 liter (C ₂ H ₂)	18 / 60 Bar	1190 mm	232 mm	5.0 mm	56 kg.	37 Mn	ISO 3807	25 E
27 liter	166 / 250 Bar	920 mm	219 mm	5.2 mm	34 kg.	37 Mn	ISO 9809-1	25 E
20 liter	200 / 300 Bar	790 mm	203 mm	4.6 mm	23 kg.	34CrMo4	ISO 9809-1	25 E
10 liter	200 / 300 Bar	840 mm	140 mm	3.3 mm	13,5 kg.	34CrMo4	ISO 9809-1	25 E
10 liter	166 / 250 Bar	840 mm	140 mm	3.1 mm	13,5 kg.	37 Mn	ISO 9809-1	25 E
10 liter (C ₂ H ₂)	19 / 60 Bar	773 mm	140 mm	2.05 mm	14 kg.	37 Mn	ISO 3807	25 E
5 liter	166 / 250 Bar	470 mm	140 mm	3.1 mm	8,1 kg.	37 Mn	ISO 9809-1	25 E
2 liter	166 / 250 Bar	340 mm	108 mm	2.4 mm	4,1 kg.	37 Mn	ISO 9809-1	25 E

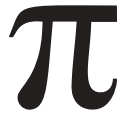
ALUMINIUM CYLINDERS

Aluminum cylinders are preferred in many areas because they are lighter than steel cylinders, have a natural resistance to oxidation and are not magnetic.

The aluminum cylinders we offer with various volume options are TPED certified.

USAGE AREAS

- ▶ Medical Purpose Breathing Cylinders
- ▶ Fire Fighting Cylinders
- ▶ Carbonated Beverage CO₂ Cylinders
- ▶ Industrial Gas Cylinders
- ▶ Incubator Cylinders
- ▶ First Aid Kit Cylinders
- ▶ Calibration Cylinders
- ▶ Corrosive Gas Cylinders
- ▶ SCUBA Cylinders



DIMENSIONS



VOLUME	WORKING / TEST PRESSURE	HEIGHT	DIAMETER	WALL THICKNESS	WEIGHT	MATERIAL	STANDARD	VALVE INLET
50 liter	200 / 300 Bar	1500 mm	250 mm	16,5 mm	55,3 kg.	6061 T6	EN ISO 7866	25 E
20 liter	200 / 300 Bar	905 mm	205 mm	13,5 mm	24 kg.	6061 T6	EN ISO 7866	25 E
10 liter	200 / 300 Bar	654 mm	176 mm	11,7 mm	13 kg.	6061 T6	EN ISO 7866	25 E
5 liter	200 / 300 Bar	525 mm	140 mm	9,3 mm	6,7 kg.	6061 T6	EN ISO 7866	25 E
4 liter	200 / 300 Bar	640 mm	111 mm	7,4 mm	4,81 kg.	6061 T6	EN ISO 7866	17 E
3 liter	200 / 300 Bar	493 mm	111 mm	7,4 mm	3,85 kg.	6061 T6	EN ISO 7866	17 E
2 liter	200 / 300 Bar	358 mm	111 mm	7,4 mm	2,89 kg.	6061 T6	EN ISO 7866	17 E
2 liter	200 / 300 Bar	402 mm	102 mm	6,8 mm	2,76 kg.	6061 T6	EN ISO 7866	17 E
1 liter	200 / 300 Bar	221 mm	102 mm	6,8 mm	1,76 kg.	6061 T6	EN ISO 7866	17 E



Our PRO model is designed for gas professionals. It has been our leading product for years. Thousands of our PRO model are being used by the gas companies all around the world.

Our PRO model comes with volume options of 9x50 lt , 12x50 lt, 15x50 lt and 16x50 lt and we produce them according to EN ISO 10961 and 2010/35/EU TPED and ADR.

In PRO Model, each cylinder is individually connected to the main distribution pipe. Separate connection from main distribution to each cylinder enables fast filling and increases efficiency, so it does not strain the pump. In addition, since a separate valve can be attached to each cylinder, the desired number of cylinders in the bundle can be filled.

TEKNİK ÖZELLİKLER

ÜRÜN ADI	ÇALIŞMA / TEST BASINCI	TÜP HACMİ	SU HACMİ	YÜKSEKLİK	GENİŞLİK	DERİNLİK	BOŞ AĞIRLIK
PRO9/50/230	230/345 Bar	50 litre	450 litre	2.000 mm	800 mm	800 mm	935 kg.
PRO12/50/230	230/345 Bar	50 litre	600 litre	2.000 mm	800 mm	1050 mm	1094 kg.
PRO15/50/230	230/345 Bar	50 litre	750 litre	2.000 mm	800 mm	1280 mm	1253 kg.
PRO16/50/230	230/345 Bar	50 litre	800 litre	2.000 mm	1050 mm	1050 mm	1306 kg.
PRO9/50/300	300/450 Bar	50 litre	450 litre	2.000 mm	800 mm	800 mm	935 kg.
PRO12/50/300	300/450 Bar	50 litre	600 litre	2.000 mm	800 mm	1050 mm	1094 kg.
PRO15/50/300	300/450 Bar	50 litre	750 litre	2.000 mm	800 mm	1280 mm	1253 kg.
PRO16/50/300	300/450 Bar	50 litre	800 litre	2.000 mm	1050 mm	1050 mm	1306 kg.

KEY FEATURES

Manifold

- Centralized Stainless Steel
(Available at all pressure models)

Pressure

- 200/300 Bar
- 230/345 Bar • 300/450 Bar

Frame Surface Protection

- Galvanized • Electrostatic Powder Paint

Outlet Valves

We offer a wide variety of valves in accordance with DIN, CGA, BS and AFNOR.

Cylinders

As one of the world's leading gas cylinder distributors, we keep a wide variety of cylinders at our warehouse for immediate production orders. Cylinders are manufactured by the reputable cylinder manufacturers around the world.

Cylinder Quantities and Volumes • 9 x 50 lt • 12 x 50 lt • 15 x 50 lt • 16 x 50 lt

Gas Applications

- All Class 2 according to ADR with the exception of C2H2 and groups T (Toxic) , TC (Toxic Corrosive).

Name Plate and Instructions

- Digital print customised with customer logo covered with 2 mm. Solid for protection. Available in local language.
- Aluminium Laser Print.



KOYUNCU



Our EKO model is designed for applications where lower cost solution is needed. EKO model comes with volume options of 6x50 lt, 9x50 lt, 12x50 lt and 16x50 lt produced in compliance with EN ISO 10961, 2010/35/EU TPED and ADR.

Main differences between EKO and PRO models are frame design and manifold system.

6x50 lt model provides a compact design and usually positioned at gas consumers who don't have heavy gas consumption but in need of the benefits of a cylinder bundle.

TEKNİK ÖZELLİKLER

ÜRÜN ADI	ÇALIŞMA / TEST BASINCI	TÜP HACMİ	SU HACMİ	YÜKSEKLİK	GENİŞLİK	DERİNLİK	BOŞ AĞIRLIK
EKO6/50/230	230/345 Bar	50 litre	300 litre	2.000 mm	566 mm	795 mm	475 kg.
EKO9/50/230	230/345 Bar	50 litre	450 litre	2.000 mm	795 mm	795 mm	600 kg.
EKO12/50/230	230/345 Bar	50 litre	600 litre	2.000 mm	795 mm	1020 mm	840 kg.
EKO16/50/230	230/345 Bar	50 litre	800 litre	2.000 mm	1020 mm	1020 mm	1100 kg.

KEY FEATURES

Manifold

- Serial Manifolded Copper/Brass
(Available up to 230 Bar models)

Pressure

- 200/300 Bar
- 230/345 Bar

Frame Surface Protection

- Galvanized
- Electrostatic Powder Paint

Outlet Valves

We offer a wide variety of valves in accordance with DIN, CGA, BS and AFNOR.

Cylinders

In our cylinder bundles, cylinders produced in accordance with TPED certified ISO 9809-1 standards of approved manufacturers are used.

Cylinder Quantities and Volumes

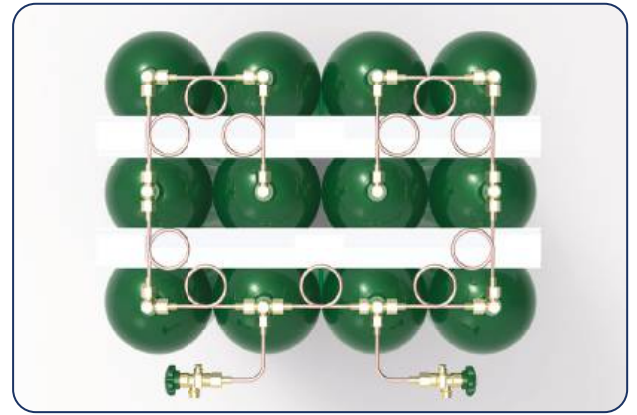
- 6 x 50 lt
- 9 x 50 lt
- 12 x 50 lt
- 16 x 50 lt

Gas Applications

- All Class 2 according to ADR with the exception of C2H2 and groups T (Toxic) , TC (Toxic Corrosive).

Name Plate and Instructions

- Digital print customised with customer logo covered with 2 mm. Solid for protection. Available in local language.
- Aluminium Laser Print.



XL
MODEL



Our XL model is designed mainly for CNG applications however it is being used for industrial, medical and specialty gas applications as well.

Our XL model is built using 150 lt cylinders to reduce weight/volume ratio to minimize transportation costs. It also provides space savings due to its taller but smaller dimensions in comparison to 50 lt bundles.

XL model comes with volume options of 4x150 lt and 6x150 lt produced according to EN ISO 10961, 2010/35/EU TPED and ADR.

TEKNİK ÖZELLİKLER

ÜRÜN ADI	ÇALIŞMA / TEST BASINCI	TÜP HACMİ	SU HACMİ	YÜKSEKLİK	GENİŞLİK	DERİNLİK	BOŞ AĞIRLIK
XL/4/150/200 XL/6/150/200	200/300 Bar 200/300 Bar	150 litre 150 litre	600 litre 900 litre	2.200 mm 2.200 mm	800 mm 800 mm	800 mm 1085 mm	730 kg. 1090 kg.

KEY FEATURES

Manifold

- Centralized Stainless Steel

Pressure

- 200/300 Bar

Frame Surface Protection

- Galvanized
- Electrostatic Powder Paint

Outlet Valves

We offer a wide variety of valves in accordance with DIN, CGA, BS and AFNOR.

Cylinder Quantities and Volumes

- 4 x 150 lt • 6 x 150 lt

Gas Applications

- All Class 2 according to ADR with the exception of C₂H₂ and groups T (Toxic) , TC (Toxic Corrosive).

Name Plate and Instructions

- Digital print customised with customer logo covered with 2 mm. Solid for protection. Available in local language.
- Aluminium Laser Print.



ACETYLENE



We produce 4 x 50 lt , 6 x 50 lt and 8 x 50 lt acetylene bundles in compliance with EN ISO 10961, 2010/35/EU and ADR.

Our acetylene bundles are designed for easy assembly and disassembly due to frequent individual weight check and maintenance of acetylene cylinders.

TEKNİK ÖZELLİKLER

ÜRÜN ADI	ÇALIŞMA / TEST BASINCI	TÜP HACMİ	SU HACMİ	YÜKSEKLİK	GENİŞLİK	DERİNLİK	BOŞ AĞIRLIK
ASETİLEN/8/50/19	19/60 Bar	50 litre	400 litre	1.900 mm	610 mm	1070 mm	700 kg.

KEY FEATURES

Manifold

- Centralized Stainless Steel

Pressure

- 19/60 Bar

Flashback Arrestor

- Optional as per customer request.

Frame Surface Protection

- Galvanized
- Electrostatic Powder Paint

Outlet Valves

We offer a wide variety of valves in accordance with DIN, CGA, BS and AFNOR.

Cylinders

In our cylinder bundles, 50 Lt. cylinders produced in accordance with TPED certified of approved manufacturers are used.

Cylinder Quantities and Volumes : • 4 x 50 lt • 6 x 50 lt • 8 x 50 lt

Gas Applications : • C₂H₂

Name Plate and Instructions

- Digital print customised with customer logo covered with 2 mm. Solid for protection. Available in local language.
- Aluminium Laser Print.





Our DUAL model cylinder bundles which we produce in accordance with EN ISO 10961 and ADR norms are designed for liquefied gases such as CO₂, Ammonia and N₂O.

Two separate manifold systems are used for simultaneous use of gas and liquid.

TEKNİK ÖZELLİKLER

ÜRÜN ADI	ÇALIŞMA / TEST BASINCI	TÜP HACMİ	SU HACMİ	YÜKSEKLİK	GENİŞLİK	DERİNLİK	BOŞ AĞIRLIK
DUAL/6/127/22	200/300 Bar	127 litre	762 litre	2.000 mm	870 mm	1245 mm	500 kg.

KEY FEATURES

Manifold

- Centralized Stainless Steel

Pressure

- 22/33 Bar

Frame Surface Protection

- Galvanized
- Electrostatic Powder Paint

Outlet Valves

We offer a wide variety of valves in accordance with DIN, CGA, BS and AFNOR.

Cylinders

TPED certified 127 Lt cylinders from approved manufacturers of superior quality are used in our cylinder bundles.

Cylinder Quantities and Volumes:

- 6 x 127 lt

Gas Applications : • NH₃

Name Plate and Instructions

- Digital print customised with customer logo covered with 2 mm. Solid for protection. Available in local language.
- Aluminium Laser Print.



1708x9



It has been specially designed upon high demand from the UK and Northern European market. Manufactured according to EN ISO 10961, 2020/35/EU TPED and ADR. Our bundle includes nine 80L cylinders.

TEKNİK ÖZELLİKLER

ÜRÜN ADI	ÇALIŞMA / TEST BASINCI	TÜP HACMİ	SU HACMİ	YÜKSEKLİK	GENİŞLİK	DERİNLİK	BOŞ AĞIRLIK
9X80/9/80/300	300/450 Bar	80 litre	720 litre	2.300 mm	910 mm	910 mm	1130 kg.

KEY FEATURES

Manifold

- Centralized Stainless Steel

Pressure

- 300/450 Bar

Frame Surface Protection

- Galvanized
- Electrostatic Powder Paint

Outlet Valves

We offer a wide variety of valves in accordance with DIN, CGA, BS and AFNOR.

Cylinder Quantities and Volumes:

- 9 x 80 lt



Gas Applications

- All ADR Class 2 with the exception of C2H2 and groups T (Toxic), TC (Toxic Corrosive).

Name Plate and Instructions

- Digital print customised with customer logo covered with 2 mm. Solid for protection. Available in local language.
- Aluminium Laser Print.

MEGC & GAS STORAGE SYSTEMS



Our engineering team calculate and design the frames for optimum weight /endurance ratio. Frames are durable enough to work under severe conditions for an extended period of time. We calculate and engineer every detail and design for the optimum gas flow. Pipe diameters, valves, elbows, diameter changes, flow direction changes are all software simulated to allow fastest filling and discharge while ensuring that pipes and cylinders are within the pressure and temperature safety limits.





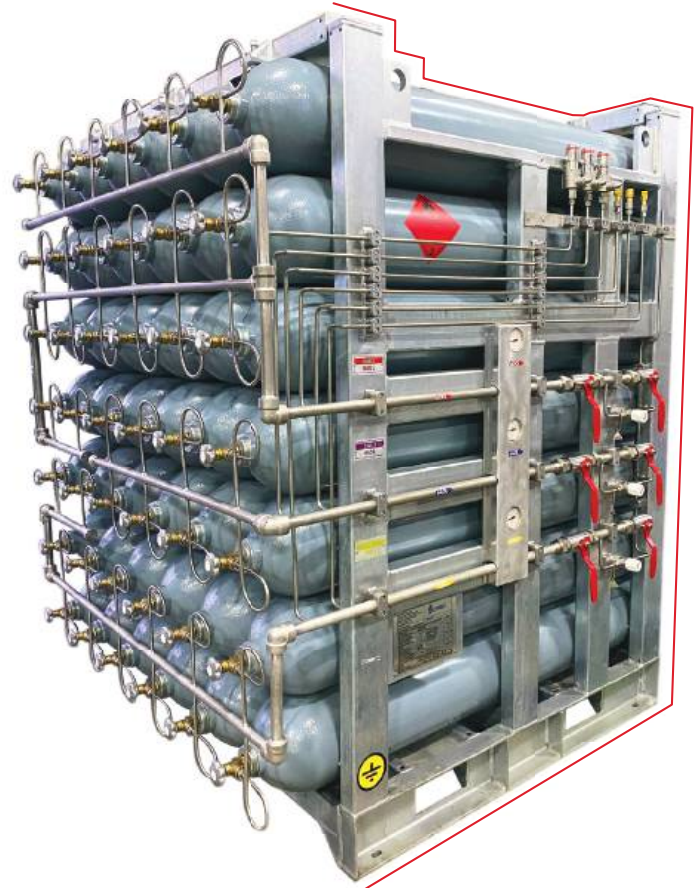
Multi Element Gas Containers (MEGC) are designed and constructed for the maximum possible gas storage within the permissible weight limitations of local authorities.

“MEGC ürünümüz genellikle müşteri gereksinimlerine göre özel olarak tasarlanmaktadır. 200 Bar veya 250 Bar çalışma basıncı seçeneklerinde, toplam 24.000 lt'ye kadar su hacmine sahip 150 lt, 200 lt tüp veya 2400 lt jumbo tüplü MEGC'lerin yapımında uzmanız.”

CE ® π



• 64 x 50 LT



• 42 x 80 LT

LIQUID NITROGEN CONTAINERS

Minimizing the evaporation rate with double-walled vacuum and super isolation system, liquid nitrogen containers provide ease of transport and unloading when using liquid nitrogen in laboratories.

Liquid nitrogen systems, which allow the long-term storage of biological materials, are ready for shipment at any time in various capacities and sizes.

DIMENSIONS

CHARACTERISTICS	UNIT	PORTABLE					STORAGE			TRANSPORT	
		IDS-1***	IX-2	IR-3	IR-7	IR-10	IX-20	IX-35	IX-47	IX-30	IX-50
CAPACITY	liters	1.15	1.75	3.9	7.8	10.5	20.5	34	47	31.3	50
STATIC EVAPORATION* LOSS RATE	liters/day	0.08	0.08	0.135	0.114	0.117	0.097	0.118	0.37	0.28	0.43
STATIC HOLDING TIME*	days	14	21	29	68	90	211	282	127	112	116
WORKING TIME**	days	9	13	18	42	56	132	180	79	-	-
TOTAL HEIGHT	in/mm	15.6/395	15.4/390	15.9/403	19.5/495	22.4/570	27.4/695	28/710	27.2/690	22/560	29.1/740
OVERALL DIAMETER	in/mm	6.6/168	6.6/168	8.9/225	10.2/260	10.2/260	15/380	17/432	19.1/485	17/433	17/433
NECK TUBE DIAMETER	in/mm	1.4/34.5	1.4/34.5	2/51	2/51	2/51	2/51	2/51	4.7/120	2/51	2/51
EMPTY WEIGHT	lbs/kgs	4/1.8	4/1.8	6/2.7	9.7/4.4	11/5	24/10.9	32/14.5	38.6/17.5	24.9/11.3	32.6/14.8
FULL WEIGHT	lbs/kgs	6/2.8	7.1/3.3	13/6.4	23.6/12.3	29.8/15.2	60.6/31.3	92.5/48.4	122.4/64.4	80.7/42.6	121.7/63.3
NO. OF CANISTERS	pcs	1	5	6	6	6	6	6	11	-	-
CANISTER OD	in/mm	1.1/28	1/25	1.5/38	1.5/38	1.5/38	1.5/38	1.5/38	2.8/72	-	-
CANISTER HEIGHT	in/mm	4.7/120	4.7/120	4.7/120	4.7/120	4.7/120	4.7/120	4.7/120	11/280	-	-
		-	-	-	-	11/280	11/280	11/280	-		



CRYOGENIC LIQUID CYLINDERS AND MICRO TANK

TPED certified liquid cylinder and micro tanks offer an alternative to high pressure cylinder delivery.

It is valuable for providing continuity in the liquefied gas supply process in various industrial, medical, research and food production applications where consumption is high.



LIQUID CYLINDER DIMENSIONS

SERVICES		LIN, LOX, LAR, LCO ₂ , LN ₂ O							LNG
DESCRIPTION	UNITS	LC15025ES	LC20025ES	LC20035ES	LC25025ES	LC25035ES	LC45025ES	LC45035ES	LCL20025ES
GROSS VOLUME	liter/USG	158/41.7	200/52.9		245/64.8		448/118.3		200/52.9
NET CAPACITY	liter/USG	150/39.6	190/50.2		233/61.6		426/112.5		190/50.2
MAXIMUM ALLOWABLE WORKING PRESSURE	barg/psig	24.1/350	24.1/350	34.5/500	24.1/350	34.5/500	24.1/350	34.5/500	24.1/350
EMPTY WEIGHT (Approx.)	kg/lbs	145/320	167/368	192/423	222/490	277/611	339/747	493/1087	167/368
WEIGHT OF LIQUID (Approx.)	LIN kg/lbs	121/267	154/339		188/414		345/761		-
	LOX kg/lbs	171/377	217/478		266/586		486/1072		-
	LAR kg/lbs	210/463	266/586		326/719		596/1314		-
	LCO ₂ kg/lbs	158/348	200/441		245/540		449/990		-
	LN ₂ O kg/lbs	183/403	232/511		284/626		520/1146		-
	LNG kg/lbs	-	-		-		-		58/128
OUTSIDE DIAMETER	mm/inch	556/21.9	556/21.9		696/27.4		788/31		556/21.9
OVERALL HEIGHT (Note 5)	mm/inch	1410/55.5	1691/66.6		-		1925/75.7		1750/68.9
OVERALL HEIGHT Incl. Trolley (Note 6)	mm/inch	1610/63.3	1891/74.4		1625/64		2025/79.7		2300/90.55
TROLLEY BASE (LxW)	mm inch	700X700 27.5X27.5	700X700 27.5X27.5		760X760 29.9X29.9		830X830 32.6X32.6		700X700 27.5X27.5

MICRO TANK DIMENSIONS

DESCRIPTION	UNITS	MODELS							
		PT0919ES	PT0938ES	P0919ECS	P0938ECS	P2019ECS	P2038ECS	P3019ECS/1	P3038ECS/1
GROSS VOLUME	liter	951		995		2080		3023	
NET CAPACITY	liter	904		945		1976		2872	
MAXIMUM ALLOWABLE WORKING PRESSURE	bar(g) [kg/cm ² (g)]	18.6 [19]	37.2 [38]	18.6 [19]	37.2 [38]	18.6 [19]	37.26 [38]	18.6 [19]	37.2 [38]
DESIGN CODE	-	EN 1251 (TPED)				EN 13458 (PED)			
EMPTY WEIGHT (Approx.)	kg	1225	1450	990	1200	1775	2175	2050	2550
WEIGHT OF LIQUID (Approx.)	LIN kg	1956	2182	1756	1964	3374	3774	4373	4873
	LOX kg	2256	2482	2070	2277	4030	4430	5327	5827
	LAR kg	2489	2714	2313	2520	4537	4937	6065	6565
	LCO ₂ kg	-	2402	-	2194	-	4256	-	5574
	LN ₂ O kg	-	2553	-	2352	-	4586	-	6054
OUTSIDE DIAMETER	mm	1155		1155		1810		1810	
FRAME SIZE (LxWxH)	mm	1600 x 1650 x 2185		1600 x 1295 x 2185		2250 x 1900 x 2030		2250 x 1900 x 2550	
NET EVAPORATION RATE (NER)	LIN(%)	1.6		1.3		0.8		0.8	
	LOX & LAR(%)	1		0.8		0.5		0.5	

MEDICAL GAS EQUIPMENT

We sell medical gas equipment such as medical gas cylinders, oxygen therapy units and pressure control and regulation regulators, which are produced in accordance with the norms of the Turkish Standards Institution and the Ministry of Health.



DIMENSIONS

Maximum Inlet Pressure	230 Bar
Outlet Pressure	2-3 Bar
Safety Valve Opening Pressure	3.5 ± 0.5 Bar
Oxygen Flow Range	1-15 Lt. / Dakika



It adjusts the flow rate of the high pressure coming from the cylinder for patients who use it in patient transport or at home, and ensures that the oxygen is humidified and given to the patient.



CRYOGENIC PROTECTION ACCESSORIES

Cryogenic protection accessories in various sizes and sizes are designed to protect against frostbite when working in ultra-cold environments with liquefied gases.

Depending on the intended use, it is recommended together with gloves, apron, helmet and foot protector.

Our products are from Italy.



DPI di 3a cat.

EN388 2422 EN511 231
CE 0498
 USO CRIOGENICO
 CRYOGENIC USE
 WATERPROOF



CARBIDE

Its chemical formula, CaC_2 (Calcium Carbide), is obtained by melting lime and coal in electric arc furnaces at approximately 2200 degrees. It is a chemical substance that produces acetylene gas when it reacts with water.

DIMENSION	BARREL WEIGHT	GAZ VERİMLİLİĞİ
50 - 80 mm	50 - 100 Kg	300 Lt/Kg
25 - 50 mm	50 - 100 Kg	300 Lt/Kg
7 - 25 mm	50 - 100 Kg	300 Lt/Kg

CaC_2 Usage Areas







- When CaC_2 is burned with oxygen, high heat is generated. This high heat is used in welding processes.
- It is used in melting of scrap metal into liquid iron, in steel production, in the processes of yellowing and ripening of fruits such as bananas, oranges and tangerines.

ECI FORTISCHEM
MEMBER OF ENERGOCHEMICA



FIRE EXTINGUISHING SYSTEMS

Our cylinders, produced in different sizes, are used individually and in fire extinguishing systems.

-  2 Kg-5 Kg CO2 cylinders and accessories
-  67LT CO2 System Cylinders
-  80LT-140LT High Pressure Inert Gas Cylinders
-  Pneumatic System Valves
-  Seamless FM200 Cylinders
-  200 Bar and 300 Bar
Inert Gas Filling IG541, IG55, IG01, IG100



CRYOGENIC PUMPS

CENTRIFUGAL PUMP

We offer centrifugal pumps used to transfer cryogenic liquids such as Nitrogen, Argon, Oxygen, LNG and similar at very low temperatures.

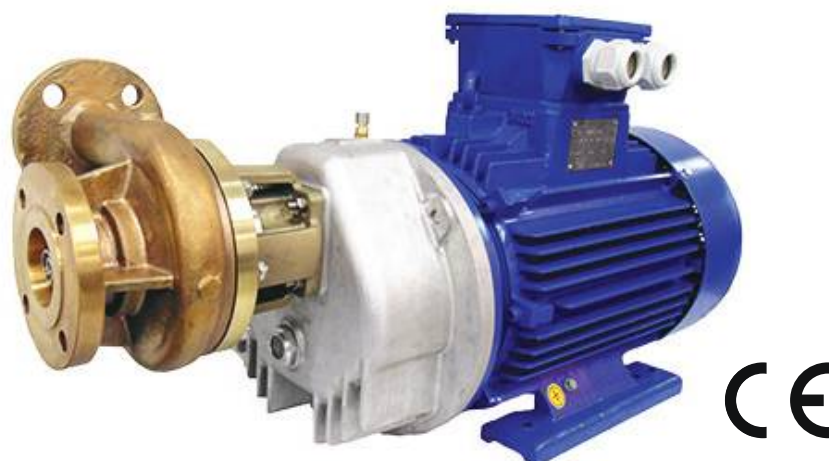
Our products are **CE** certified.

Features

- High Hydraulic Efficiency
- Integrated Boost System (IBS) for Extremely Low
- NPSH Operation
- High Reliability
- New Mechanical Seal for Longer Life
- Low Noise

Usage Areas

- Mobile Cryogenic Tanker Unloading
- Tank to Tank Transfer
- Pipeline Backup



LOX/LIN TRANSFER PUMP TECHNICAL DATA

PROCESS CONDITIONS			
Model	CPA 160-5	Type	Centrifugal
Flow (LPM)	300-400	Suitability	LOX/ LIN
Suction Pressure (Bar.) Max.	5		
MOTOR PARAMETERS			
Motor Rating (kW)	22 kW	Power Supply	380 V; 50 Hz; 3 Ph

PISTON FILLING PUMP

We offer piston filling pumps for filling Nitrogen, Argon, Oxygen, LNG and similar cryogenic liquids into high pressure cylinders.

Our products are **CE** certified.

Features

- 300 Bar Working Pressure
- 330 Bar Safety Valve For Safety
- Mechanical And Electrical Safety Equipment
- Cooling Control System Equipped with 3 PT100s
- Electrical Control Panel Suitable for Automation
- Safety Check Valve



CE

PISTON FILLING PUMP TECHNICAL DATA

SERVICE INFORMATION			
Model	RP 36/32	Discharge Pressure	300 Bar
Suitability	LAR/LOX/LIN	Suction	15 Bar
Flow	8.3 LPM	Power	9.6 kW
MOTOR PARAMETERS			
Nominal Motor Power	15 kW	Voltage, Ph, Frequency	400V, 50Hz, 3 ph

PISTON CO₂/N₂O/ETHYLENE FILLING PUMP

We offer piston filling pumps used for the filling of liquid phase gases such as CO₂, N₂O, Ethylene and similar to the cylinders and for transferring them between storage systems.

Features

- Safety valves for safety
- Mechanical and electrical safety equipment
- Electrical control panel suitable for automation
- Safety check valve



PISTON CO₂ FILLING PUMP TECHNICAL DATA

SERVICE INFORMATION			
Model	RPS 40 / 32 T3A	Discharge Pressure	80 Bar
Suitability	LCO ₂	Suction Pressure	22 Bar
Flow	8.3 LPM (500 kg/hr)	Type	Piston
MOTOR PARAMETERS			
Nominal Motor Power	5.5 kW	Voltage, Ph, Frequency	415 V; 50 Hz; 3 Ph

GAS CONTROL EQUIPMENTS

VALVES

OXYGEN VALVE

Gas Type	Oxygen
Inlet Size	25 E ISO 11363-1
Outlet Size	G 3/4" DIN 477 nr.9
Working Pressure	230 bar
Valve Body	Brass EN12165 CW617N



ARGON VALVE

Gas Type	Argon
Inlet Size	25 E ISO 11363-1
Outlet Size	G 5/8" BS 341 nr.3
Working Pressure	300 bar
Valve Body	Brass EN12165 CW617N



NITROGEN VALVE

Gas Type	Nitrogen
Inlet Size	25 E ISO 11363-1
Outlet Size	G 5/8" BS 341 nr.3
Working Pressure	300 bar
Valve Body	Brass EN12165 CW617N



CARBONDIOXIDE VALVE

Gas Type	Carbondioxide
Inlet Size	25 E ISO 11363-1
Outlet Size	W21.8x1/14" DIN 477 nr.6
Working Pressure	250 bar
Valve Body	Brass EN12165 CW617N



ACETYLENE VALVE

Gas Type	Acetylene
Inlet Size	25 E ISO 11363-1
Outlet Size	W23x1/18" CGA 520
Working Pressure	25 bar
Valve Body	Brass EN12165 CW617N



MIXTURE VALVE

Gas Type	Mixture
Inlet Size	25 E ISO 11363-1
Outlet Size	G 5/8" BS 341 nr.3
Working Pressure	300 bar
Valve Body	Brass EN12165 CW617N



HELIUM VALVE

Gas Type	Helium
Inlet Size	25 E ISO 11363-1
Outlet Size	G 5/8" BS 341 nr.3
Working Pressure	300 bar
Valve Body	Brass EN12165 CW617N



HYDROGEN VALVE

Gas Type	Hydrogen
Inlet Size	25 E ISO 11363-1
Outlet Size	W21.8x1/14" LH DIN 477 nr.1
Working Pressure	300 bar
Valve Body	Brass EN12165 CW617N



DRY AIR VALVE

Gas Type	Dry Air
Inlet Size	25 E ISO 11363-1
Outlet Size	G 5/8" BS 341 nr.3
Working Pressure	300 bar
Valve Body	Brass EN12165 CW617N



METHANE VALVE

Gas Type	Methane
Inlet Size	25 E ISO 11363-1
Outlet Size	W21.8x1/14" LH DIN 477 nr.1
Working Pressure	300 bar
Valve Body	Brass EN12165 CW617N



NITROGEN PROTOXIDE VALVE

Gas Type	Nitrogen Protoxide
Inlet Size	25 E ISO 11363-1
Outlet Size	G 3/8" DIN 477 nr.11
Working Pressure	200 bar
Valve Body	Brass EN12165 CW617N



* You can contact our sales team for your other valve needs.

GAS CONTROL EQUIPMENTS

REGULATORS (2100 Series)

EN ISO 2503 CE Certified.

OXYGEN REGULATOR

Gas Type	Oksijen
Gas Inlet Connection	G 3/4" DIN 477 nr.9
Gas Outlet Connection	G 3/8"
Gas Inlet Pressure	0-230 bar
Gas Outlet Pressure	0-10 bar



ARGON REGULATOR

Gas Type	Argon
Gas Inlet Connection	G 5/8" BS 341 nr.3
Gas Outlet Connection	G 1/4"
Gas Inlet Pressure	0-230 bar
Gas Outlet Pressure	-



NITROGEN REGULATOR

Gas Type	Nitrogen
Gas Inlet Connection	G 5/8" BS 341 nr.3
Gas Outlet Connection	G 3/8"
Gas Inlet Pressure	0-230 bar
Gas Outlet Pressure	0-10 bar



CARBONDIOXIDE REGULATOR

Gas Type	Carbondioxide
Gas Inlet Connection	W21.8x1/14" DIN 477 nr.6
Gas Outlet Connection	G 1/4"
Gas Inlet Pressure	0-200 bar
Gas Outlet Pressure	-



ACETYLENE REGULATOR

Gas Type	Acetylene
Gas Inlet Connection	W23x1/18" CGA 520
Gas Outlet Connection	G 3/8" LH
Gas Inlet Pressure	0-25 bar
Gas Outlet Pressure	0-1,5 bar



MIXTURE REGULATOR

Gas Type	Mixture
Gas Inlet Connection	G 5/8" BS 341 nr.3
Gas Outlet Connection	G 1/4"
Gas Inlet Pressure	0-230 bar
Gas Outlet Pressure	-



HELIUM REGULATOR

Gas Type	Helium
Gas Inlet Connection	G 5/8" BS 341 nr.3
Gas Outlet Connection	G 3/8"
Gas Inlet Pressure	0-230 bar
Gas Outlet Pressure	0-10 bar



HYDROGEN REGULATOR

Gas Type	Hydrogen
Gas Inlet Connection	W21.8x1/14" LH DIN 477 nr.1
Gas Outlet Connection	G 3/8" LH
Gas Inlet Pressure	0-230 bar
Gas Outlet Pressure	0-10 bar



DRY AIR REGULATOR

Gas Type	Dry Air
Gas Inlet Connection	G 5/8" BS 341 nr.3
Gas Outlet Connection	G 3/8"
Gas Inlet Pressure	0-230 bar
Gas Outlet Pressure	0-10 bar



METHANE REGULATOR

Gas Type	Methane
Gas Inlet Connection	W21.8x1/14" LH DIN 477 nr.1
Gas Outlet Connection	G 3/8" LH
Gas Inlet Pressure	0-230 bar
Gas Outlet Pressure	0-10 bar



NITROGEN PROTOXIDE REGULATOR

Gas Type	Nitrogen Protoxide
Gas Inlet Connection	G 3/8" DIN 477 nr.11
Gas Outlet Connection	G 3/8"
Gas Inlet Pressure	0-200 bar
Gas Outlet Pressure	0-10 bar



* You can contact our sales team for your other regulator needs.

MISCELLANEOUS EQUIPMENTS

CAPS

We supply tulip caps or protection caps according to our customers' preference. Cylinders should be kept with caps within the scope of safety precautions and should never be shipped without a cap.



The company name can be written on the tulip caps with laser cutting for orders over a certain number.



Tulip Cap



Protection Cap

CYLINDER TRANSPORT BASKETS

Cylinder transport baskets, designed to carry and stock cylinders in accordance with occupational safety, can be produced with loading ramps for easy loading and unloading of cylinders.

This ramp has an easy on-off system and also acts as a cover.

Our 12 and 16 cylinder capacity transport baskets are galvanized for long-term use.



FILLING RAMPS

Our company, which has been operating in the gas sector for nearly 50 years, establishes turnkey gas filling facilities with the experience it has gained. The filling facilities we have established in many countries are appreciated for their safe and easy use.

Main Features of the Facilities We Have Established;

- Top filling
- Stainless steel piping
- Adjustable height according to cylinder length
- Digital pressure gauge
- Audio and visual pressure warning system
- Plexiglass protection under high pressure
- Boring records without keys
- Ratio adjustment possibility without back release in mix gas filling



Lined area for notes.

📍 **MERKEZ OFİS /Main Office**

Dudullu O.S.B. Hoca Nasreddin Cad. No: 11 Ümraniye, 34776, İstanbul, Türkiye
T: +90 216 449 42 05 F: +90 216 449 42 60 M: satis@koyuncutas.com

📍 **ÜRETİM TESİSİ /Production Site**

GEBKİM Kocaeli - Gebze V (KİMYA) İhtisas OSB, Recep Yazıcı Cad. No: 4 Dilovası, 41455, Kocaeli, Türkiye
T: +90 262 658 06 06 F: +90 262 658 06 05 M: satis@koyuncutas.com

📍 **ANKARA ŞUBESİ /Ankara Branch**

Saray Mah. FSM Bulvarı No: 375 Kahramankazan, 06980, Ankara, Türkiye
T: +90 545 573 60 29 M: bkurt@koyuncutas.com

