

# HIGH PRESSURE COMPRESSED AIR SYSTEMS FOR LASER CUTTING MACHINERY

(15 bar)



sarmak@sarmak.com | sarmak.com

- Economical and quality “Dry Air Laser Cutting System” instead of Nitrogen or Oxygen.
- The system can be used for sheet metal materials such as black or galvanized, stainless steel, aluminum or copper.
- Efficient and cost effective.
- High quality compressed air with special dryer and filtration system



## Installation System:

- 15 Bar Screw Air Compressor (Fixed Speed or Variable Speed)
- Oil Mist Eliminator
- Water Separator
- Refrigeration Dryer (With Pre- and After-Filters)
- Active Carbon Tower
- 16 Bar Receiver Tank
- Heatless Adsorption Dryer (With Pre- and After-Filters)
- Set of Filter before Laser Cut
- Cutting Machine



## SCREW AIR COMPRESSOR'S PRODUCT FEATURES

### MAIN MOTOR AND DRIVE SYSTEM

- Valid IE class efficiency, IP55/F, PTC protected Electric Motor
- Star/Wye-Delta (with contactors) Operating Mode
- Automatic Belt-tensioning System
- Service-friendly taper-bush pulleys

### AIREND

- Specially selected for every model capacity; Made in Europe
- Max.Pressure 16 barg
- Optimum speeds for long life
- Long lasting and quality-made design with new generation bearing selection.

### ELECTRICAL CABINET

- **Includes :** star/wye-delta contactor set, fan contactor, motor protection switch & fuse, control transformer (24V), Emergency stop switch, on/off switch, control panel (CPU), LCD digital monitor.

### ELECTRONIC CONTROL/COMMAND SYSTEM

- Microprocessor controlled command module
- 2x16 LCD monitor, LED indicators
- Shutdown and alarm messages, Maintenance warnings
- Specially integrated time-relay for the dryer
- Automatic shutdown function during electricity outage

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# SARMAK

KOMPRESÖR + MÜHENDİSLİK

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- Programmable communication parameters
- Optional continuous or automatic operating mode
- Programmable delay durations for stopping and running
- Software update function with internal bootloader
- Phase sequence control and inter-phase voltage difference disfunction percentage regulation
- MODBUS RTU compatible Communication Protocol
- Accessibility for parameter change or control via PC and SCADA feature
- Low/High Voltage and Low Frequency Warnings/Alarms
- Parameter backup feature
- Last 15 alarm logs

## COOLING SYSTEM

- High Volume Combi Air/Oil Cooler resistant to harsh conditions (minimum load to Dryer)
- Inlet Axial Fan integrated to main motor for effective cooling
- Quality and long lasting compressor oil
- Optional integrated heat recovery system

## SEPARATOR SYSTEM

- Original design and production by Sarmak: Horizontal Air/Oil Tank certified by TÜV-SÜD/Germany
- Service-friendly, Spin-on type Air/Oil separator filter element

## OTHER COMPONENTS

- Inlet air filter, intake valve, safety valve, minimum pressure checkvalve, factory filled oil, sound and vibration insulated canopy, chassis.

## SCREW AIR COMPRESSOR TECHNICAL SPECIFICATIONS

Model	Maximum Operating Pressure		Free Air Delivery		Nominal Motor Power		Sound Level from 1 mt (dBA)	Compressed Air Connection	Dimensions			Total Weight (kg)
	(bar g)	(psi)	(m³/min)	(cfm)	(kW)	(HP)			Length (mm)	Width (mm)	Height (mm)	
ROBOT 23	15	215,5	1.4	51.2	15	20	68	3/4	900	830	990	297
ROBOT 43	15	215,5	2.10	74.2	22	30	69	1"	1.050	860	1.125	367

\* ALL PERFORMANCE VALUES ARE ACCORDING TO CAGI PNEUROP / PN 2 CPTC 2 NORMS. FREE AIR DELIVERY VALUES ARE GIVEN FOR NOMINAL OPERATING PRESSURES (14,5 BAR).

**STANDARDS** : FREE AIR DELIVERY-PRESSURE (CAGI PNEUROP PN2CPTC2-ISO 1217), SOUND LEVEL (CAGI PNEUROP PN8NTC2), QUALITY ASSURANCE (ISO 9001:2015).

**GUARANTEED TOLERANCES** : UNDER NOMINAL CONDITIONS, THE INDICATED FREE AIR DELIVERY (m³/min) AND SPECIFIC POWER (kW X min / m³) ARE COMPLIANT WITH ISO 1217-ANNEX C STANDARDS.

MANUFACTURED IN SARMAK MAKINA A.S. FACILITIES, NEW GENERATION **ROBOT 23 – 43 SERIES** COMPRESSORS ARE PRODUCED WITH THE UTMOST IMPORTANCE AND STATE-OF-THE-ART TECHNOLOGY. EACH AND EVERY UNIT IS TESTED IN DETAIL FOR FUNCTIONALITY AND PERFORMANCE IN OUR MODERN TEST CENTER DESIGNED ACCORDING TO ISO STANDARDS. AFTERWARDS, EACH UNIT IS CHECKED BY OUR EXPERIENCED ENGINEERS FOR SARMAK QUALITY ASSURANCES. FINALLY, THE UNIT IS PACKAGED AND SHIPPED FOR START-UP AT CUSTOMER'S SITE.



### SARMAK MACHINERY COMPRESSOR PUMP INDUSTRY & TRADE CO.

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