

Termomeccanica Group

SCREW COMPRESSORS for air applications







Il gruppo Termomeccanica Tradizione, tecnologia e innovazione

Termomeccanica fu fondata in La Spezia nel 1912 come "Società Cerpelli & C", divenendo successivamente negli anni 30 "Termomeccanica Italiana S.p.A." Nel gennaio 1995, le attività della società Termomeccanica Italiana S.p.A., appartenente al Gruppo di Stato EFIM in liquidazione, sono state cedute a Termomeccanica S.p.A. affinché, con management privato, fossero perseguite le storiche tradizioni della società nei campi manifatturiero e impiantistico.

Termomeccanica è oggi un gruppo industriale italiano tra i principali operatori nei settori dell'Ecologia e della Meccanica. Leader nazionale nella produzione di grandi pompe industriali e nell'impiantistica ecologica, il gruppo progetta, realizza e gestisce soluzioni tecnologiche d'avanguardia.

Termomeccanica svolge le sue attività in Italia ed all'estero attraverso le seguenti società operative, specializzate nei rispettivi mercati di riferimento:

TM.E. SpA Termomeccanica Ecologia si occupa della progettazione e costruzione di opere di ingegneria ambientale ed industriale per la Produzione di Energia (da rifiuti solidi urbani e da Fonti Rinnovabili quali biomasse, biogas, eolico e solare) e per il trattamento tecnologico delle aque ad uso civile ed industriale (potabilizzazione, dissalazione e depurazione).

TM.P. SpA Termomeccanica Pompe sviluppa, costruisce e commercializza pompe centrifughe ingegnerizzate per applicazioni nei settori della Produzione di Energia, Dissalazione, Movimentazione delle Acque, dell'Oil & Gas ed Industria.

TM.I.C. Srl Termomeccanica Industrial Compressors è leader italiano nella progettazione, costruzione e commercializzazione di compressori rotativi lubrificati ad olio per applicazioni aria e gas.



Termomeccanica Group Tradition, technology & innovation

Termomeccanica was established in 1912 in La Spezia as "Cerpelli & C." and later became a stock company in the 1930s, taking the name of "Termomeccanica Italiana S.p.A."

In January 1995, further to the dissolution of EFIM, the stateowned group it belonged to, the activities and shares of Termomeccanica Italiana S.p.A. were transferred to privatelyowned and -managed Termomeccanica S.p.A. with the aim to continue the company's strong heritage in the manufacturing and turn-key plants sectors.

Today, Termomeccanica is an Italian industrial group which is amongst the main players of both the Environmental and Mechanical sectors. The group, national leader in the manufacturing of large industrial pumps and in environmental turn-key plant projects, designs, develops and manages cutting edge technological solutions.

Termomeccanica carries out its various business activities in Italy and abroad through its operational companies, each specialized in one of the group's key market:

TM.E. SpA Termomeccanica Ecologia is a turn-key EPC contractor for Environmental & Industrial plants for the Production of Energy (Waste to Energy and Renewable Energy) and Technological Water Treatments (potabilization, desalination and waste water purification for civil and industrial uses).

TM.P. SpA Termomeccanica Pompe designs, manufactures and commercializes engineered centrifugal pumps for the fields of Power Generation, Desalination, Water Transmission, Oil & Gas and Heavy Industry.

TM.I.C. SrI Termomeccanica Industrial Compressors is the Italian leader in developing, manufacturing and commercializing oil injected screw compressors for air and gas applications.

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E-mail: info@famcocorp.com

o @famco_group

Tel:о۲I- ۴ Λ о о о е 9

Fax:∘۲۱ – ۴۴۹۹۴۶۴۲



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Oil injected screw compressors for air applications - sizes 2.2 to 450 kW

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SCI**10** Tech data

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TMIC The Italian leader production of screw compressors for air, gas and special applications

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SCA-ITA Series

SCA Oil injected screw compressor ITA Improved Termomeccanica compressor



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Product features

Main features

High volumetric efficiency Low running cost Low air discharge temperature Low noise level PTFE double lip seal SCA standard discharge pressure range - from 3 to 15 barg (43.5 to 220 psig); higher pressure upon request ITA discharge pressure range – from 3 to 15 barg (43.5 to 220 psig)

Assembly system

The assembly systems for the SCA series are:

- base plate mounted
- flange mounted

Sizes

	SCA7	
	SCA7L	
	SCA8	
	SCA8DA - SCA8DR - SC	CA 8GA - SCA 8GR
	SCA9	
	SCA9DR - SCA9GR	
	SCA10	
	SCA10DR - SCA10GR	
	SCA13	
	SCA13DR - SCA13GR	
	SCA14	
	SCA14DR - SCA14GR	
	SCA21	
	SCA21DR - SCA21GR	
	SCA30	
	SCA30DR - SCA30GR	
	ITA18	
	ITA18DR - ITA18GR	
	ΙΤΔ23	
	ITA23DB - ITA23GB	
	A axial outlet B radial outlet	
	D direct or belt driven coupli	ng
	G gear box	
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	info@famcocorn.com	🕕 Tel:•۲۱– ۴ Л • • • • ۴ ۹
	nno@ranicocorp.com	🕞 Fax :०४१ – ккаакук
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SCA7



SCA7L

Drive: Male Lobe combination: 5/6 Shaft end size: 19 mm Weight: 10 kg - 22 lbs

Data Tables











2500 3000 3500 4000 4500 5000 5500 6000 6500 7000 7500 8000 Speed (rpm)

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SCA8



SCA**8DA**

Drive: Male Lobe combination: 5/6 Shaft end size: 25 mm Weight: 18 kg - 40 lbs



SCA8GA

Drive: Male Lobe combination: 5/6 Shaft end size: 25 mm Weight: 30 kg - 66 lbs



Data Tables

Air Capacity

3

2,5

2

1.5

1

0.5

2500

SCA8DR

Drive: Male Lobe combination: 5/6 Shaft end size: 25 mm Weight: 18 kg - 40 lbs

10 barg

12500



SCA8GR

Drive: Male Lobe combination: 5/6 Shaft end size: 25 mm Weight: 30 kg - 66 lbs

Power (kW)



Power





Air Capacity (cfm)

4500

6500

Speed (rpm)



8500

10500

(m³/min)

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SCA9



SCA9DR

Drive: Male Lobe combination: 5/6 Shaft end size: 40 mm Weight: 39 kg - 86 lbs



SCA9GR

Drive: Male Lobe combination: 5/6 Shaft end size: 40 mm Weight: 61 kg - 134 lbs

Data Tables



Air Capacity (cfm)





Power





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SCA10



SCA10DR

Drive: Male Lobe combination: 5/6 Shaft end size: 40 mm Weight: 45 kg - 90 lbs



SCA10GR

Drive: Male Lobe combination: 5/6 Shaft end size: 40 mm Weight: 67 kg - 144 lbs

Data Tables









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SCA13



SCA13DR

Drive: Male Lobe combination: 5/6 Shaft end size: 42 mm Weight: 74 kg - 163 lbs



SCA13GR

Drive: Male Lobe combination: 5/6 Shaft end size: 42 mm Weight: 99kg - 218 lbs

Data Tables









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SCA14





SCA14DR

Drive: Male Lobe combination: 5/6 Shaft end size: 45 mm Weight: 108 kg - 238 lbs

SCA14GR

Drive: Male Lobe combination: 5/6 Shaft end size: 45 mm Weight: 140 kg - 309 lbs

Data Tables



Air Capacity (cfm)









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SCA21



SCA21DR

Drive: Male Lobe combination: 5/6 Shaft end size: 65 mm Weight: 263 kg - 580 lbs



SCA21GR

Drive: Male Lobe combination: 5/6 Shaft end size: 55 mm Weight: 309 kg - 631 lbs

Data Tables



Air Capacity (cfm)





Power (HP)



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SCA30



SCA30DR

Drive: Male Lobe combination: 5/6 Shaft end size: 95 mm Weight: 900 kg - 1984 lbs



SCA30GR

Drive: Male Lobe combination: 5/6 Shaft end size: 90 mm Weight: 1040 kg - 2293 lbs

Data Tables



Air Capacity



(cfm)





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The Italian specialist in designing & manufacturing bare-shaft screw compressors **for air applications**



Focus on ITA Series

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ITA Series

Improved Termomeccanica Compressors



A machine fully dedicated to AIR applications

- Rotor profile entirely designed by TMIC
- Optimized compact design
- Reduced speed operation
- High efficiency
- Low noise

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ITA**18**





Drive: Male Lobe combination: 5/6 Shaft end size: 50 mm Weight: 130 kg - 287 lbs



ITA**18GR**

Drive: Male Lobe combination: 5/6 Shaft end size: 45 mm Weight: 167 kg - 368 lbs

Data Tables









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ITA**23**





Drive: Male Lobe combination: 5/6 Shaft end size: 75 mm Weight: 410 kg - 904 lbs



ITA**23GR**

Drive: Male Lobe combination: 5/6 Shaft end size: 60 mm Weight: 490 kg - 1080 lbs

Data Tables









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TMIC A unique partner for your **special air applications**



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E-mail: info@famcocorp.com
@famco_group



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SCI Screw Compressors Integrated

SCI Standard Design



Rotors

end, this is why TMIC pays particular care to its manufacturing process. The company uses the latest-generation CNC machines and top-grade materials so as to guarantee the best tolerances and highest reliability. Special attention is also given to the final grinding process. A multistep computer-aided rotor control system also contributes to giving 100% accuracy to each TMIC rotor profile.

Bearings

Given the rotational speeds and bearing loads they work at, TMIC compressors are equipped with top quality bearings that ensure the highcapacity and long-life requested.

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such stage, micro-fibres separate the oil drops from the compressed air. The separated oil, in large drops, is sent back to the compressor lubricating system.

TMIC Valves

The performance of a compressor is influenced by the quality of its valves. All TMIC's SCI series compressors are fitted with valves specifically designed to ensure high reliability and low-cost operation.

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SCI ALG The first integrated oil injected screw compressor made of aluminium



SCI Series compactness + Aluminum lightness = 65kg (143 lbs) weight reduction

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SCI Series

Product features

Main features

New profile 5/6 lobe relation High volumetric efficiency Low running cost Low air discharge temperature Low noise level SCI standard discharge pressure range – from 3 to 15 barg (43.5 to 220 psig); higher pressure upon request PTFE double lip seal

Integration

Thermostatic valve Minimum pressure valve Intake regulator Oil filter Air filter Oil separator filter Solenoid filter Oil recovery system

Sizes

SCI7 SCI7D SCI8 SCI8DT - SCI8GT SCI10 SCI10DT -SCI10GT - SCI10ALG

D direct version **G** gearbox version

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SCI7



SCI**7**

Drive: Male Lobe combination: 5/6 Shaft end size: 25 mm Weight: 56 kg - 123 lbs

Data Tables



Air Capacity (cfm)







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SCI8



SCI8DT

Drive: Male Lobe combination: 5/6 Shaft end size: 25 mm Weight: 52 kg - 115 bs





Drive: Male Lobe combination: 5/6 Shaft end size: 25 mm Weight: 63 kg - 139 lbs

Data Tables













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SCI10



SCI10DT

Drive: Male Lobe combination: 5/6 Shaft end size: 40 mm Weight: 139 Kg - 306 lbs



SCI10GT

Drive: Male Lobe combination: 5/6 Shaft end size: 40 mm Weight: 153 Kg - 337 lbs



SCI10ALG

Drive: Male Lobe combination: 5/6 Shaft end size: 40 mm Weight: 90 Kg - 198 lbs

Data Tables









(kW)



Power (HP)

Power



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TMIC More than a century of experience in **providing air compression solutions**



Focus on SLC Series

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SLC Series

Product features

Main product features Optimised rotor profile 3/5 lobe relation Discharge pressure up to 2.5 barg PTFE double lips seal Low running cost High volumetric effiency Integrated oil pump for oil lubrification

Sizes

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SLC1

Drive: Female Lobe combination: 3/5 Working pressure: max 2,5 barg Weight: 140 Kg - 308 lbs Shaft end size: 45 mm

Data Tables

8000 9000 10000 11000 12000 13000 14000 15000 Speed (rpm)

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SCL2

Drive: Female Lobe combination: 3/5 Working pressure: max 2,5 barg Weight: 150 Kg - 330 lbs Shaft end size: 45 mm

Data Tables

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TMIC Your best choice also for special gas applications

Focus on Gas Ends Series

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ITA-TS Series

For high pressure applications

Product features

Flow Range: 14-27 m³/min Discharge Pressure: 25 bar(g) Power Range: 110-260 kW Suitable for air and gas applications High efficiency Equipped with mechanical seal

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Other Gas Ends solutions

Compact Series

Capacity range: 0.2 - 5.5 m³/min Suction pressure: up to 2 bar Max discharge pressure: 15 bar Max power: 45 kW Semi-Integrated

NG Series

Capacity range: 0.35 - 45 m³/min Suction pressure: up to 2 bar Max discharge pressure: 20 bar Fixed Vi Max power: 450 kW

ITA-HP Series

Capacity range: 1.2 - 9.5 m³/min Suction pressure: up to 8 bar Max discharge pressure: 25 bar 3 Different Vi available Max power: 110 kW

SCG Series

Capacity range: 1.2 - 13 m³/min Suction pressure: up to 3.5 bar Max discharge pressure: 24 bar Variable Vi System Max power: 110 kW

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TMIC All encompassing solutions making your air compression easier

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Special products & services

TMIC LUBRICANTS

Oxidative stability Low volatility Corrosion protection Long system life Reduced maintanance and top-offs Enhanced system reliability

TMIC INLET VALVES

TMIC SERVICES

Hydrostatic testing Material certification ATEX certification Vibration analysis Mechanical running test (MRT) Declaration of conformity Marine equipment & special applications certification

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TM.I.C. S.r.I Termomeccanica Industrial Compressors Via del Molo 3 • 19126 La Spezia • Italia Tel. +39 0187 552 1 • Fax. +39 0187 552 464 E-mail: industrialcompressors@termomeccanica.com www.tmic.termomeccanica.com

E-mail: info@famcocorp.com

@famco_group

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