

トルコの機械産業

トルコ共和国大統領府投資局

# WHY INVESTING TURKISH MACHINERY INDUSTRY:

INVEST.GOV.TR

# トルコの機械産業

トルコの機械産業は今世紀に入り飛躍的に成長

▶ 売上高4倍: 210億ドル/2019

▶ 就労人口2.4倍:244千人/2019

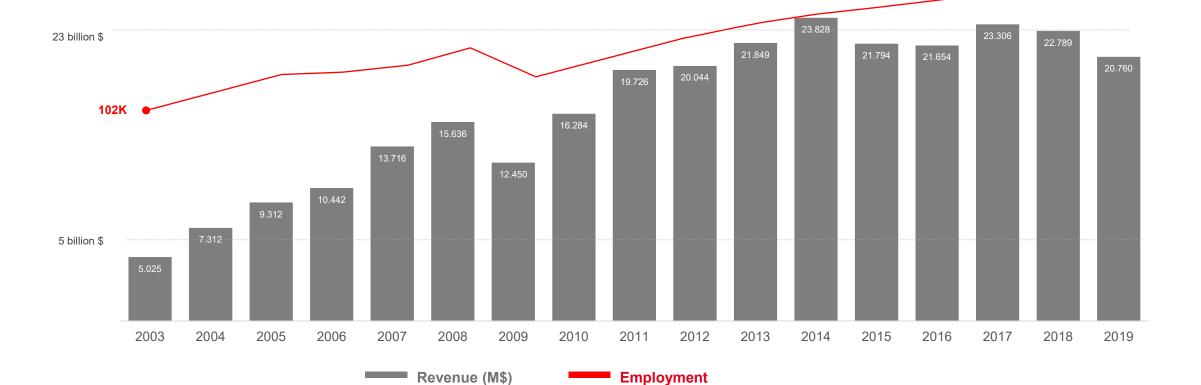












### 幅広い産業の成長需要が機械産業を牽引



平均成長率 2009-2019



2<sup>nd</sup> largest plastics producer after Germany in Europe



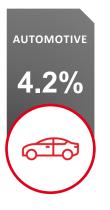
6<sup>th</sup> largest clothing supplier in the world, 3<sup>rd</sup> largest clothing supplier to Europe



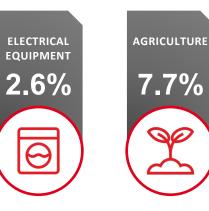
5<sup>th</sup> largest electricity market in Europe – with 88.5 GW of installed capacity.



Largest sector in Turkey with a USD 70 billion production



15<sup>th</sup> largest automotive manufacture r globally, producing over 1 million vehicles



Largest TV 7<sup>th</sup> largest and white agricultural producer in goods manufacturer the world in Europe



650K+ dwelling units built per year

### EUとの関税同盟 28か国とのFTA



# **TURKEY**

HAS GEOGRAPHICAL PROXIMITY TO SOME OF THE

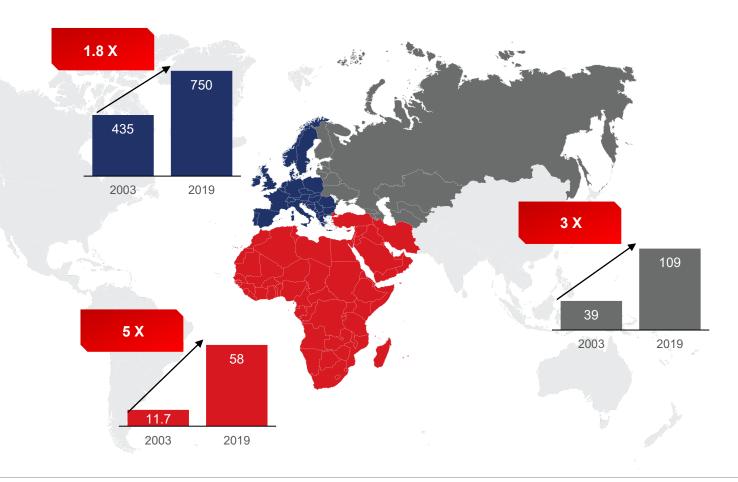
# HIGHEST GROWTH **MARKETS**

IN MACHINERY AND IS CONVENIENTLY **POSITIONED AS A** 

# **MANAGING** AND **MANUFACTURING HUB**



### **IMPORT NUMBERS** (IN BILLION \$)



# メジャープレイヤー

### 機械セクター 1万7千社、外資系も含む



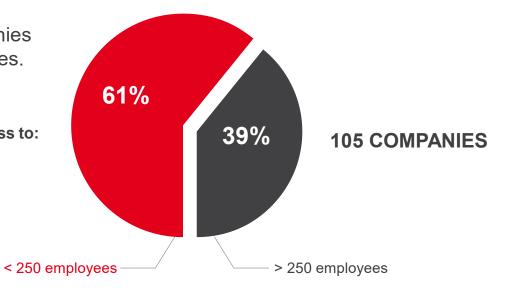


販売高の60%が中小 企業によるもの

**75%** of the companies have <10 employees.

### **Growth requires access to:**

- Market
- Technology
- International finance



トップ25社のうち外資系が10社 外資系の輸出比率は40%

40% **EXPORT ON AVERAGE** 

























































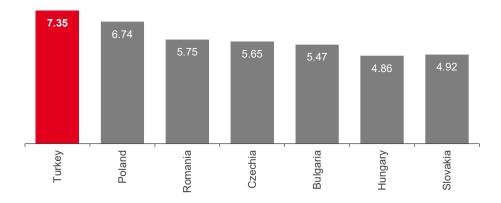


# 労働力:コスト競争力は十分 スキルも高い



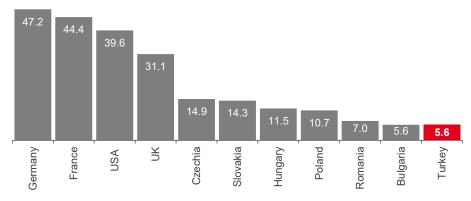
### **AVAILABILITY OF MANAGEMENT/ENGINEER 2020**

(10=Available; 0=Unavailable)



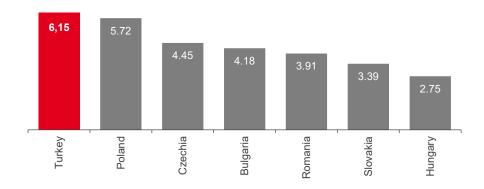
### LABOR COST PER HOUR IN MANUFACTURING

\$, 2018



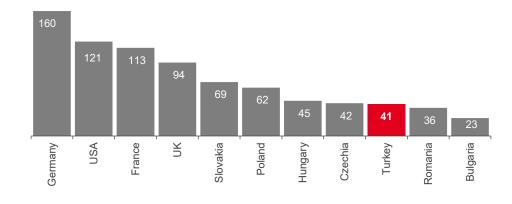
### **AVAILABILITY OF COMPETENT SENIOR MANAGERS 2020**

(10=Available; 0=Unavailable)



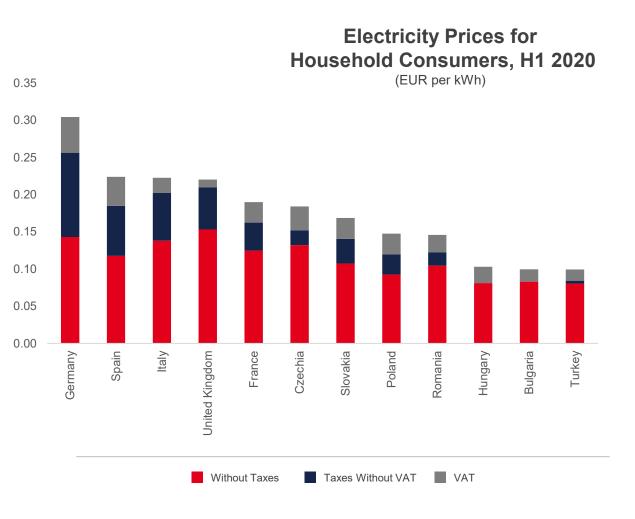
### REMUNERATION OF MANAGEMENT/ENGINEER

Total base salary plus bonuses and long-term incentives \$K, 2018



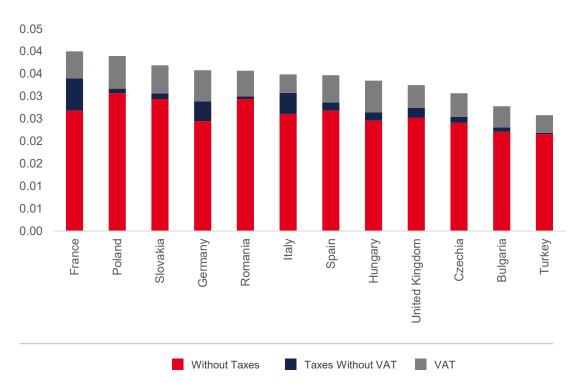
# 電気、ガスのコスト競争力





# Natural Gas Prices for Non-Household Consumers, H1 2020

(EUR per kWh)



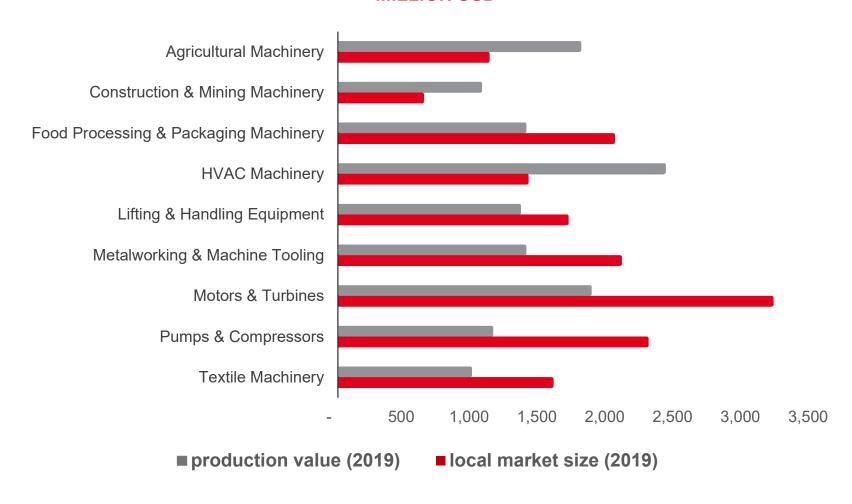
Source: Eurostat, All taxes and levies included

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### **MILLION USD**



Source: MAKFED analysis 2019 values





Strong industrial base - h ラクター 生産台数はヨー ロッパの10%強、2020年に5 万台。



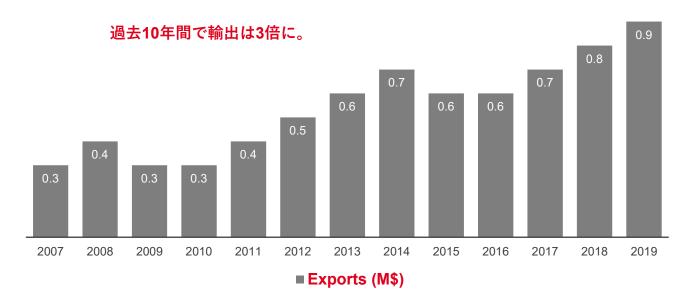
Strong local market ートラク ター国内市場は2020年4万8千 台、ヨーロッパで最大規模。



輸入の 70% は高価格帯トラク ター、バーベスター。



2万2千人を雇用



輸出の40%は北米、同じく40%がヨーロッパ向け。

DRIVEN BY TURKEY'S AGRICULTURAL ECODEMANDNOMY AND FRAGMENTED STRUCTURE:



**Agricultural GDP** USD 80 Billion



**Agricultural land** 23 Million ha



**Arable land** 6.1 Million ha



Average enterprise size 7,6 ha





TAFE じいりつけつ. TürkTraktör











SONALIKA







Strong local market - 建設産業 は中国、インドに続いて世界3位 の成長



国内生産35%、輸入65%。



国内向け6億ドル、輸出14億ドル の生産規模はヨーロッパ10位。



Strong & international supplier base 自動車産業の基盤によりサプライ チェインが充実



公共投資と都市化が需要を牽引。



国際競争力のあるコントラクター が需要の基盤。

- 44 contractors in ENR250 list









































# 建設・鉱業分野



# 過去5年間に USD 1000億ドルのインフラプロジェクト









2023年迄に**+ USD 3250億ドル** 













# エネルギー関連分野

### 再生可能エネルギー分野に注力



### **KEY FACTS**



欧州で5場目の市場規模 年率5.3%で成長



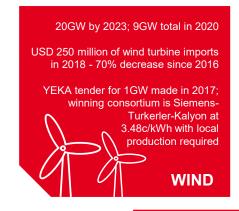
過去10年間で750億ドル の投資

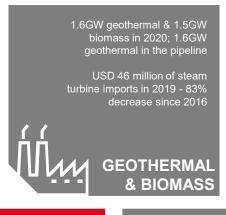


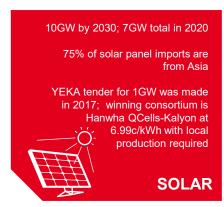
電気の需要は今後10年間で 50%増。再生可能エネルギー、国産エネルギーに注力。



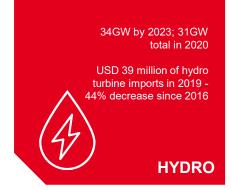
水力も引き続き重要。風力発 電、地熱などの設備需要も増



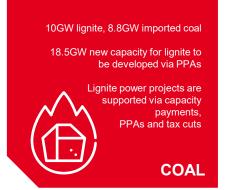








27.5% of the Akkuyu Nuclear Power Plant will be completed by the end of this year. The start of operation for the first of the plant's by 2023. Akkuyu and 2nd nuclear project will lead to USD 16 billion of products & service Nuclear supply chain in Turkey to develop through international partnerships **NUCLEAR** --



### 市場規模 USD 20億ドル 2019



### **KEY FACTS**



トルコは農業大国、食品産業クラ スターも充実。20億ドル規模がイ スタンブール、アンカラ、イズ ミール、コンヤ、ガジアンテプに。



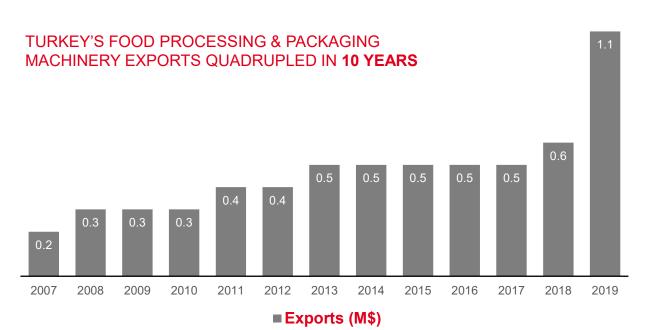
食品輸出160億ドル/2019年。



食品加工・包装関連機械輸入は180億



食品多国籍企業の製造拠点。 Unilever, Kraft, Nestle, Danone, Ferrero等。



### ...WHERE 80% OF EXPORTS **ARE MACHINERY FOR**



Processing & milling of grains and cereals



Industrial preparation of food or drink



Milking machines and dairy machinery

### ...AND TOP5 **EXPORT MARKETS ARE**



UZBEKISTAN



**IRAQ** 



KAZAKHSTAN



**IRAN** 



**ROMANIA** 



















Strong industrial base - 32億 ドルの生産規模- Europe's manufacturing base for panel radiator, boiler and AHU's



Strong local market -Europe's largest split AC 150 万台、VRF market 25万台



Strong local market - ボイラー は欧州4位、130万台。



住宅建設が需要を牽引。 商工業用も効率規制による需要 が牽引。



VRF 市場は6倍に伸長。 hightech productionの需要大。



トルコジェネコンの海外への浸透 が需要を牽引。









SAMSUNG

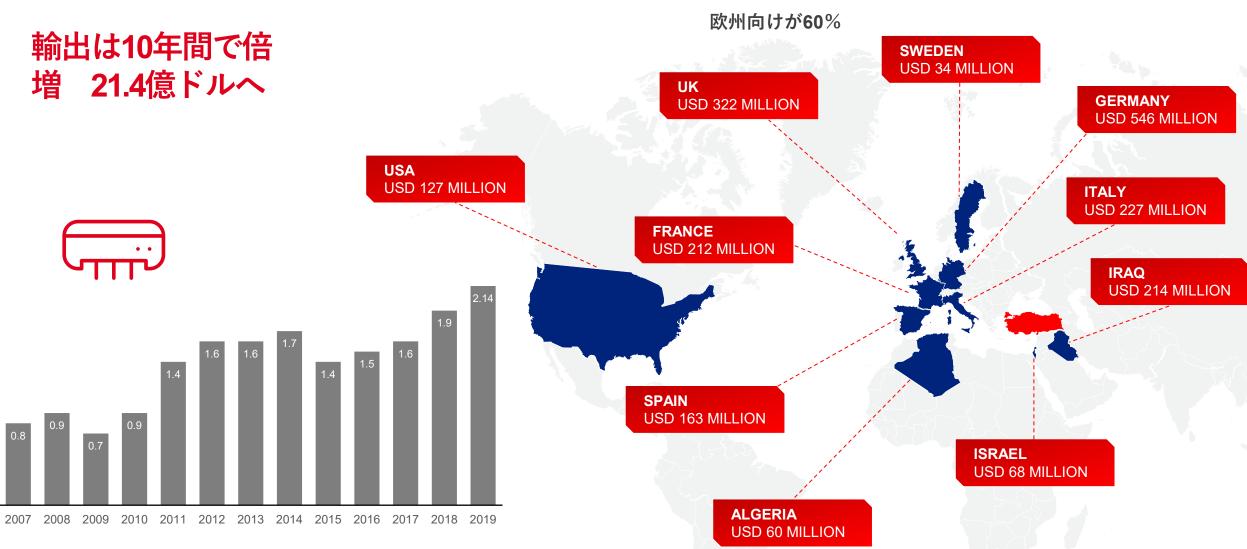
















Strong industrial base – 2019年 に14億ドル生産。



Istanbul, Kocaeli, Bursa, Ankara, Konya, Kayseri、Izmir に製造拠点集中。



Strong supplier base - 自動車、 その他産業の充実による。



エレベーターは世界3位の市場規模。 ThyssenKrupp, Otis, Kone, Schindler, Hyundai など。



エスカレーターは世界2位の市 場規模、年間2千か所。



Opportunity for assembly and manufacturing of parts



Strong local market – 民生用産 業用ともに需要増。







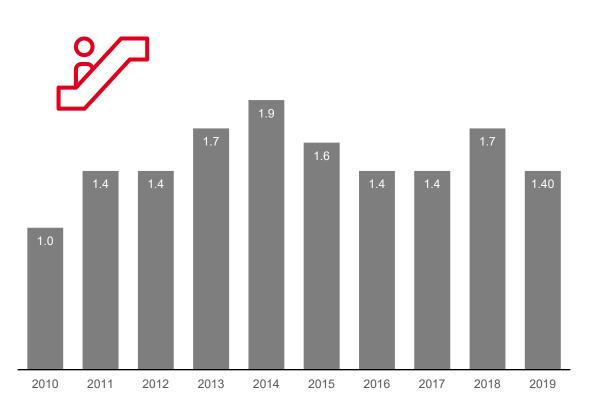


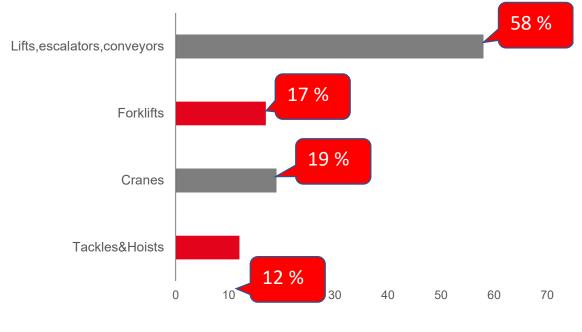
# 昇降・マテリアルハンドリング





### 生産額 14億ドル (2019)





### 市場規模 USD 21億ドル 2019 世界11位



### **KEY FACTS**



Strong industrial base – 中東欧最大 生産規模、13.6億ド ル(2019年)



Strong in laser machine tools, forging & punching machine tools



輸出は8億4千万ドル、ロシア、 ドイツ、米国、ポーランド、 フランス、カナダなど。



輸入の3分の一は machining centers, lathes - mostly from Germany, Japan and Italy



**Investment opportunity** for CNC tools -

トルコの主要産業 が需要を牽引

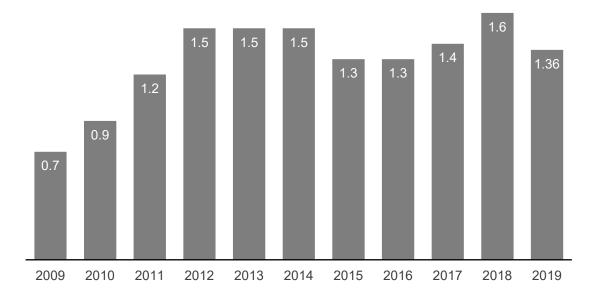








### TURKEY'S METALWORKING & MACHINETOOLING 生産は10年で2倍に







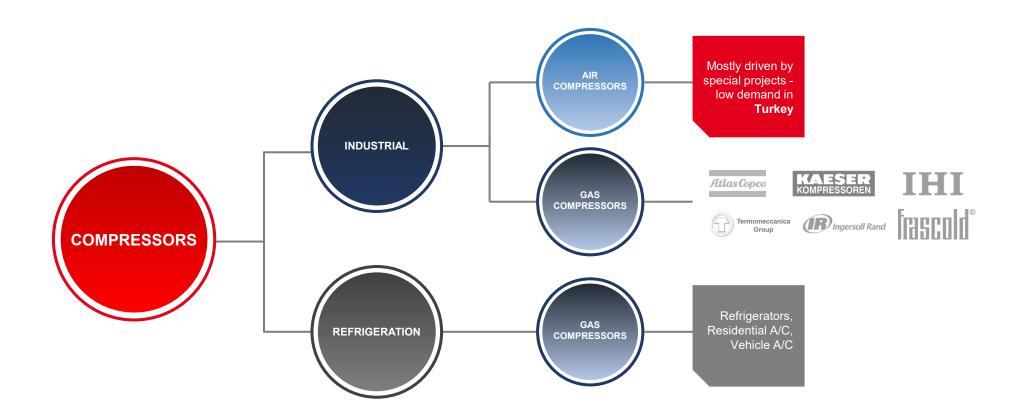
2019年に11億ドル生産、 イスタンブール、コンヤ、イズミールに集中



大部分はSMEs



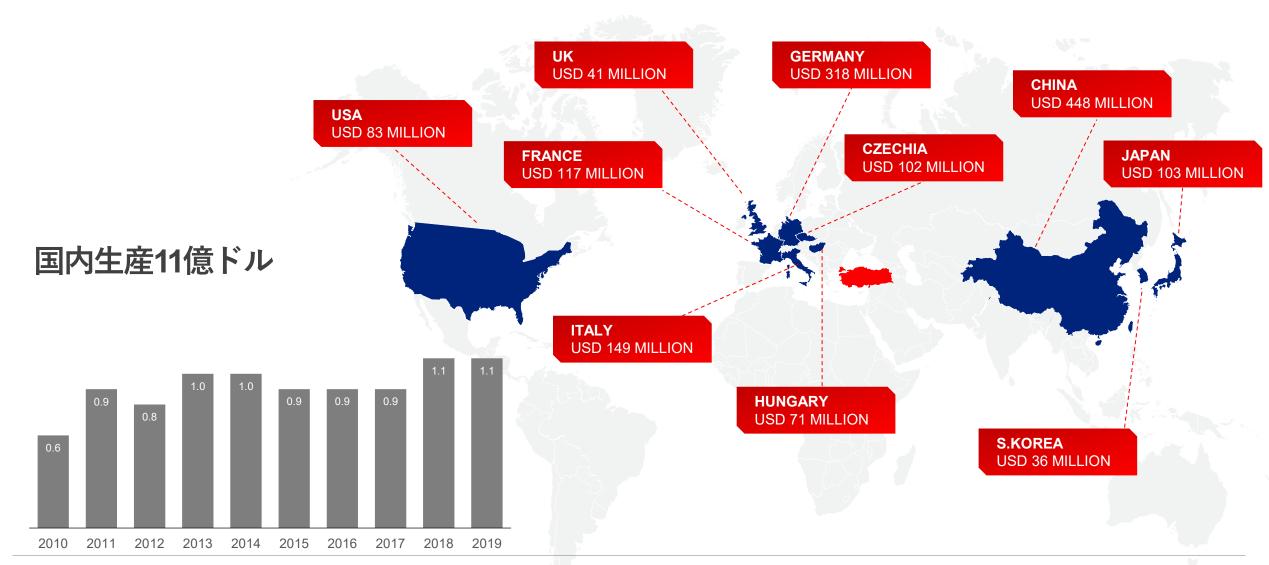
Strong local market - インフラ 投資、製造業、建設、農業が需要 を牽引



# ポンプ・圧縮機



### 輸入 USD 20億ドル



Source: MAKFED analysis 2019 values, press excerpts, Comtrade HS 8413, 8414

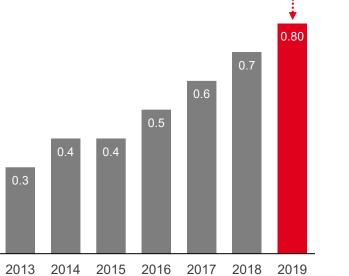
**Exports (M\$)** 

2008

2009



# 輸出8億ドル 輸入19億ドル



**KEY FACTS** 



Strong industrial base ニット、染色等が主要分野



需要を牽引する繊維製品輸出100 億ドル、欧州が最大輸出先。



中国などアジア産繊維製品との差別化が重要なテー マ、更新需要も大きい



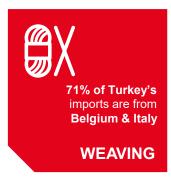
2007



2011

2010

2012





3% of world

exports







### 他社事例

# 多くの他計事例



# B/S/H/

- The company's brand portfolio includes eleven well-known appliance brands like Bosch, Siemens, Gaggenau and Neff as well as the ecosystem brand Home Connect and service brands like Kitchen Stories.
- 38 production sites in Europe, the USA, Latin America and Asia
- At the end of 2020, BSH employed about 60,000 people worldwide.
- BSH achieved record sales of €13.9 billion in 2020.
- At 5.1 percent of total turnover, R&D spending in 2020 remained high with a focus on digital technologies.
- BSH Turkey produced 5.8 million products from Cerkezköy Factories in 2020. 70 % of the production is exported. BSH Turkey is the first company that exports by rail to China from Turkey.

- · IHI Corporation Japanese corporation that produces ships, aircraft engines, turbochargers, industrial machines, power station boilers and suspension bridges
- Had a revenue of USD 13 billion in 2020 with 30K employees
- Completed projects in Turkey include Golden Horn Bridge, Fatih Sultan Mehmet Bridge, Osman Gazi Bridge and several reinforcement projects
- Formed a JV with Dalgakıran Makine with an investment of USD 14.4 million to produce turbo compressors in Turkey in 2018 (60 employees)
- Uses Turkey as a base for exports to Europe, the Middle East, and other growing markets.



- Japanese multinational electronics and electrical equipment manufacturing company with a total revenue of USD 40.7 billion in 2019
- Operational in Turkey since 2012 especially in air conditioning, elevators and escalators, factory automation systems, visual information systems and transportation systems as well as electrification
- In 2018, opened its first air-conditioner manufacturing plant of Europe in Turkey with an investment of USD 80 million

### **Putzmeister**

- Established in Germany in 1958, its products include plant and equipment for concrete production, truck mixers, plastering machines. concrete injectors and concrete pumps
- Acquired by Chinese competitor Sany Heavy Industries for USD 402 million in 2012
- Manufacturing concrete pumps and mechanical and hydraulic distributors at its Cerkezkoy plant since 2008





- Established in Italy, its products include washing appliances, built-in and small domestic appliances. Had a revenue of 1.1 Billion in 2019
- Manufacturing in Turkey since 2007 at its Eskisehir plant
- Invested EUR 15 Million for the launch of a new plant in Turkey with an employment of 300 people
- Uses Turkey plant as a base for oven and stove manufacturing, built-in appliances and dryers and exports over 90% of its production
- Qingdao Haier completed the acquisition of the Candy Hoover Group in 2019.

### FEDERAL-MOGUL POWERTRAIN

- Established in the USA in 1899, its products include pistons, rings&liners, valve seats&quides, engine bearings and sealing
- Tenneco completed the acquisition of Federal-Mogul in 2018. Tenneco is one of the world's leading designers, manufacturers and marketers of automotive products for original equipment .Tenneco had \$15.4 billion revenue in 2020.and approximately 73,000 employee.
- Operational in Turkey since 1998, currently has two facilities with a total employment of 1600 people
- Has invested a total of EUR 400 million in Turkey by 2017
- 80% of the piston production is exported to Europe and USA as original equipment



### **Contact**

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