



RELAX PROGRAM

solutions for mechanical and economical pressure

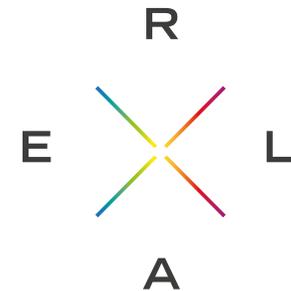
A B O U T U S

KOSMEK products facilitate the flexibilization and automation of manufacturing processes and open up new ways of technical design and economic savings.

For decades, **KOSMEK** has been the market leader in Asia. The increased demand in **KOSMEK**'s patented low-pressure technology brought **this unique company** to Europe 8 years ago. Since then, the business has grown more than 30% annually.

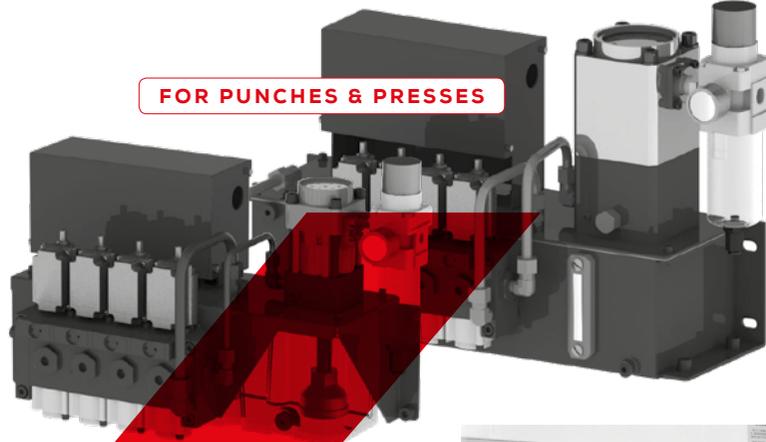
30%

GROWTH RATE
PER YEAR





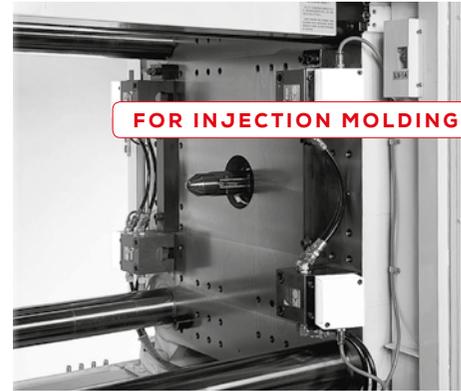
FOR PUNCHES & PRESSES



FOR AUTOMATION



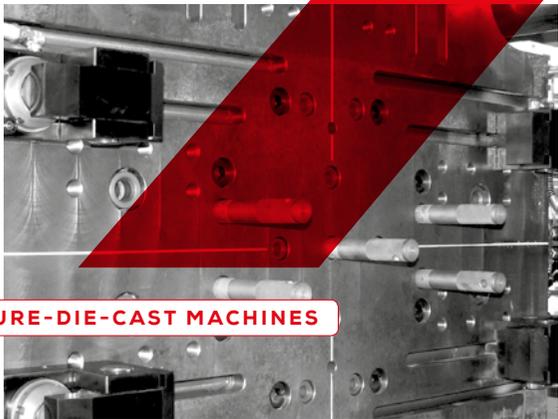
FOR INJECTION MOLDING MACHINES



FOR FIXTURE BUILDING



FOR HIGH-PRESSURE-DIE-CAST MACHINES



苦楽を共にできる仲間と
良き雰囲気の中で
すぐれた商品をつくり続け
お客様に喜んでいただき
その成果をみんなで共有する
そんな会社をつくりたい

With colleagues who can share
pleasure and pain, in good
atmosphere, continuing to
manufacturer good products,
satisfying customers, and share the
achievement with everyone. This is
the company which I want to found.

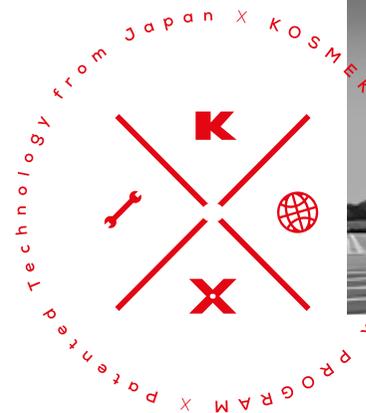
Correspondingly translated from the Japanese "Founding Spirit" by the founder Keitaro Yonezawa.



FROM JAPAN WITH LOVE

KOSMEK has products for workholding, factory automation, die-casting and injection molding machines as well as for presses. 360 national and international patents currently protect these products.

The success story started with a technical limitation: nearly 40 years ago Japanese car manufacturers limited their maximum hydraulic pressure to 70 bar. **KOSMEK** has stood up to this limitation and has created one of the most innovative developments of the past 30 years for this market: products that produce higher clamping forces with low pressure, guarantee higher accuracy and are maintenance-free.



RELAX PROGRAM

solutions for mechanical and economical pressure



UNIQUE
COMPANY

In-house development of all products in Kobe, Japan
In-house production of all products in Kobe, Japan
360 national and international patents
Worldwide sales- and service network



EXEMPLARY
ECONOMICAL

Reducing cycle times
Increasing overall equipment effectiveness (OEE)
Decreasing operating costs
Enhancing competitiveness



INIMITABLE
PRODUCTS

High-Power-Technology with mechanical lock
Low-pressure technology
Zero-backlash technology
Maintenance free technology

A futuristic, white, humanoid robot with intricate mechanical details on its body. It is posed with one arm raised to its head. A large, bold red 'X' is superimposed over the robot. The background is black.

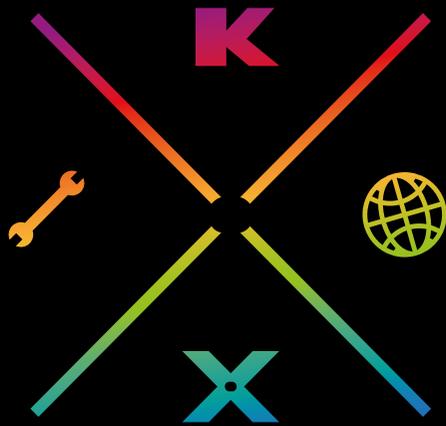
THE BEAUTY OF PRESSURE

R
E X L
A

RELAX PROGRAM

SECTION 1

UNIQUE COMPANY



IN-HOUSE DEVELOPMENT



IN-HOUSE PRODUCTION



360 PATENTS



GLOBALLY POSITIONED

In-house development of all products in Kobe, Japan

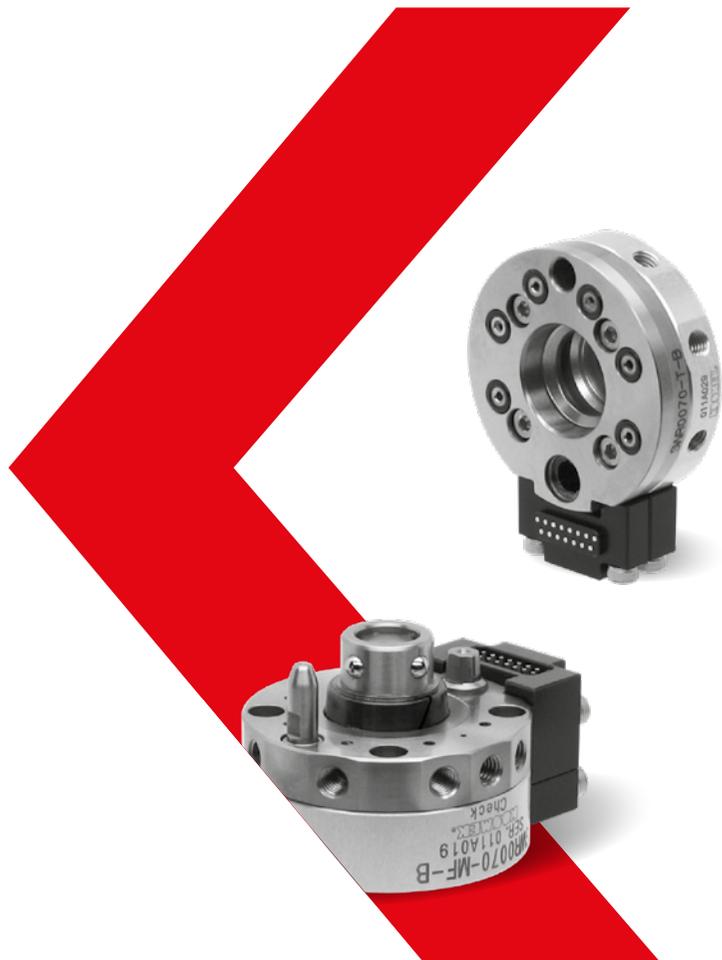
In-house production of all products in Kobe, Japan

360 national and international patents

Worldwide sales- and service network

In-house development and in-house production guarantee the highest product quality and allow the fastest possible adaptation to various customer requirements. At **KOSMEK** you automatically get the most innovative product on the market.

As the only company in the world, we can equip the **entire production process** with our products. From the **positioning and clamping** of the workpiece to **factory automation** to the **initial equipping** of machine tools. This not only reduces the complexity of planning with different contact persons, it also simplifies resource management.



RELAX PROGRAM

SECTION 2

EXEMPLARY ECONOMICAL



REDUCE CYCLE TIME



INCREASE OEE



DECREASE COSTS



ENHANCE COMPETITIVENESS

Reducing cycle times

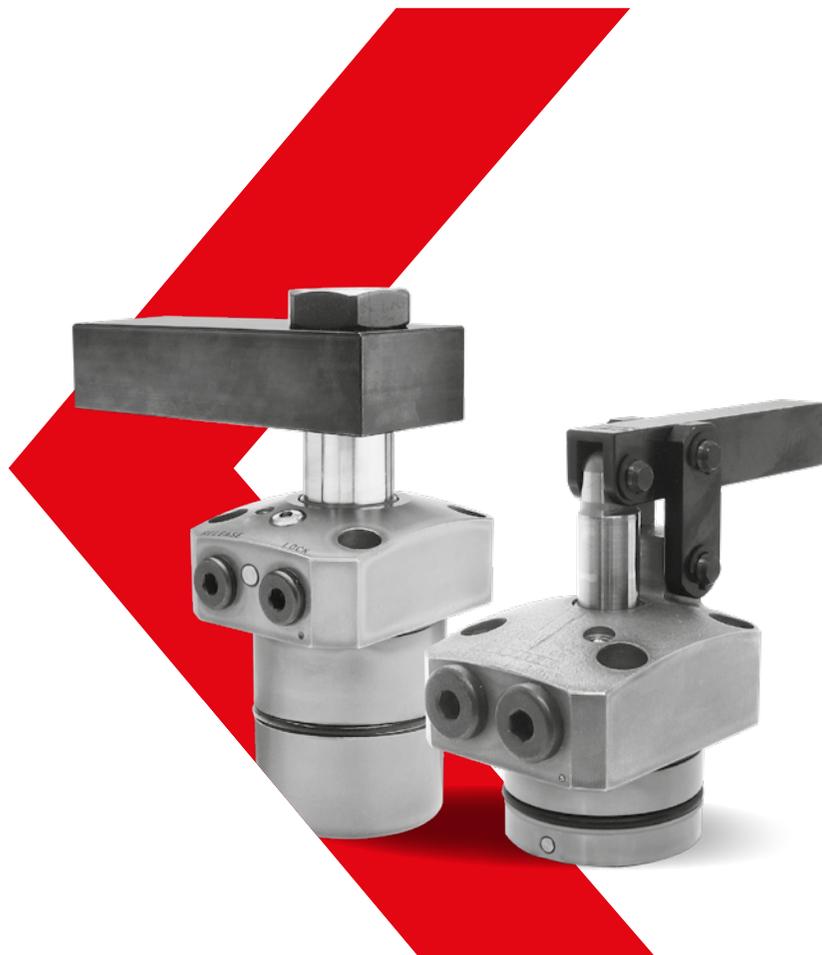
Increasing overall equipment effectiveness (OEE)

Decreasing operating costs

Enhancing competitiveness

Higher clamping- and holding forces despite lower pressure allow the use of smaller product sizes and therefore a better utilization of the machine room respectively the use of smaller and more cost-effective machines. The increased performance of the components allows fewer elements to be used and additionally reduces operating costs due to lower energy consumption.

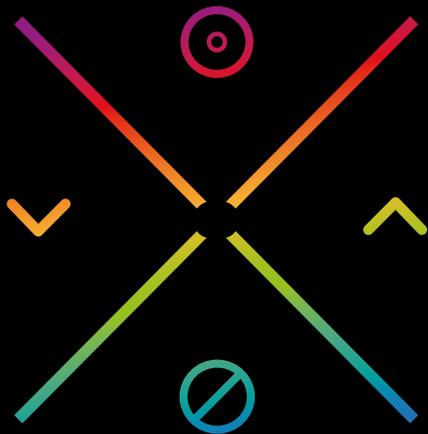
Being maintenance free and unrivaled reliable result in fewer downtimes. The repeat accuracy of 3 micrometers of our positioning and clamping systems allow for greater process stability and thus less rejects.



RELAX PROGRAM

SECTION 3

INIMITABLE PRODUCTS



HIGH-POWER TECHNOLOGY



LOW-PRESSURE TECHNOLOGY



ZERO-BACKLASH TECHNOLOGY



MAINTENANCE FREE TECHNOLOGY

High-Power technology with mechanical lock

Low-pressure technology

Zero-backlash technology

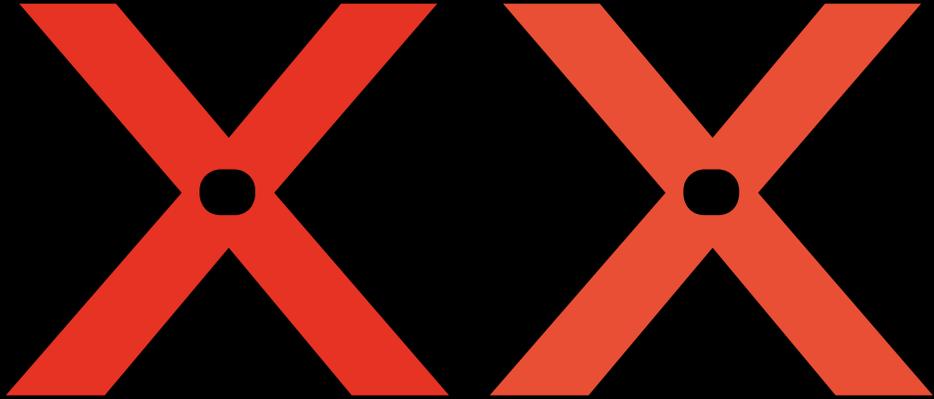
Maintenance free technology



The patented “high-power technology” is based on an increase in the force generated by the hydraulic or pneumatic pressure over inclined planes in the cylinder. Clever use of the necessary elements not only results in **up to three times** higher clamping force and **up to seven times** higher holding force than comparable sizes, but also a mechanical locking mechanism that enables a holding force even at 0 bar. This creates new applications for clamping elements or may save additional elements, such as pressure maintenance valves, pressure booster and the like.

Furthermore, this technology allows the use of pneumatic clamps, where previously hydraulic systems were needed. High-precision, backlash-free, torsion and bending moment stable robotic tool changer expand the application range of investment-intensive machines from “pick and place” to demanding machining and assembly tasks such as deburring, screwing, press-fitting and assembly of components or subassemblies, which would not be possible today without **KOSMEK** technology.

REELAX



for higher value added

for better safety at work

for more reliability

for massive time saving



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