

phytron

# 60 Years of Engineering Excellence

Innovated solutions targeted to the future.



1947

2000

1996

2004

1993

1973

2007

1983

1990

1962

60

YEARS  
phytron

customized solutions  
in motion

# Milestones of a success story.

**1948**  
**There is a good chemistry with ASI:**  
The spectrochemical spark analyser is used for determining the concentration and quantity of chemical substances.



**1947**

**phytron is founded:**

Siegfried Auerhammer develops electrophysical instruments in his radio engineering laboratory.

1949

1950

1951

1953

1954

1955

1956

1957



**1952**

**Elphot III sheds light upon darkness:**

For example the purity of foodstuffs is quantified by light with the spectral line photometer.

**1958**

**Synchronous motors are high-velocity stars:**  
The multipolar synchronous motors provide rapid drive of grinding spindles.



1959

1960

1961

1963



**1962**

**FG 1002 has been proven a thousandfold:**  
The frequency converter optimizes the operation of grinding spindle motors.



**1964**

**Première at phytron:**  
Formation of the first production program of synchronous and stepper motors ZSS and ZSH.



1965



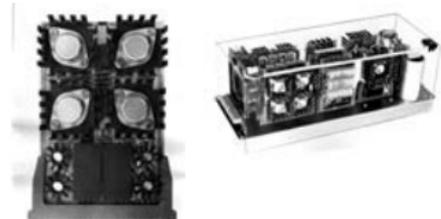
1966 1967 1969 1970 1971 1972



## 1968

### **PMS 221f and FGSJ 700:**

The models combine high operation frequency with compact design and low weight.



## 1973

### **PGSJ 208 to 1508:**

The chopped stepper motor power stages provide individual switching capacity from 200 to 1500 watts.

1974



## 1975

### **Phytronik:**

The numerical stepper motor controller for two axes is operated by punched tape and includes 99 auxiliary functions.

1976 1977 1978 1979 1980 1981 1982



## 1983

### **A good piece of independence:**

The innovative stepper motor controller is freely programmable and runs up to eight axes.

1985 1986 1987 1988 1989

## 1984

### **Start into vacuum:**

The first vacuum motors are produced.





9 1991 1992 1993 1994 1995

**1990**

**The silent SMD series:**

In the new stepper motor power stage the chopper frequency is raised to 18 kHz, eliminating stand still noise.

**1996**

**The new standard:**

Our stepper motor controllers with patented current regulation, designed for wall and rack mounting, are groundbreaking on the market.



1998 1999

**1997**

**Program of the future:**

The optimized motor series ZSS and VSS for vacuum applications up to  $10^{-11}$  mbar are tomorrow's series.



2001 2002 2003

**2000**

**GCD talks plain language:**

Introduction of a stepper motor power stage with axis controller, parallel port and plain text display.

**2004**

**PSM describes a new era:**

phytron offers servo motors, expanding its product range to combinations with stepper and servo motors.



2005

**2006**

**MR 8A minirack ensures comfort:**

The multiaxis solution for up to eight stepper motor power stages enables easy operation with online monitoring.



**2007**

**MSX defines progress:**

The ministep power stage with selectable current profile is a leap into the next generation.

## 60 years of ambitious drive

### Those who provide worldwide movement, should move with the times.

A conviction, phytron keeps in mind since foundation.

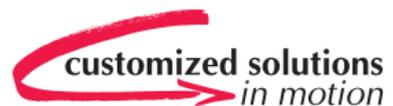
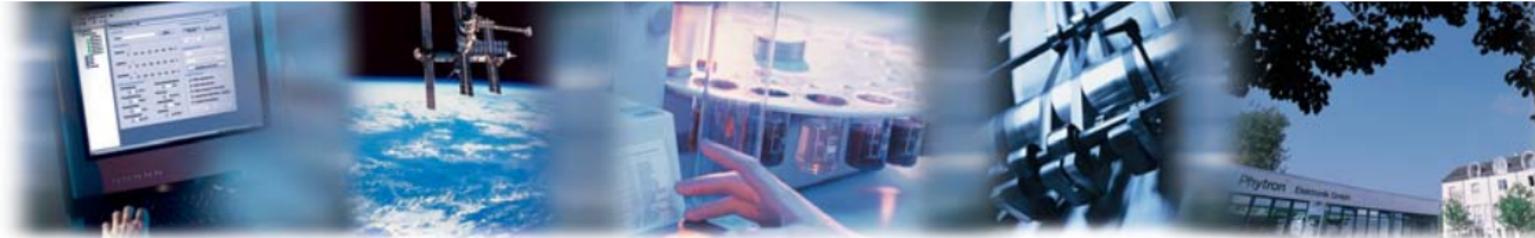
Crowned with success:

During six decades a little engineering laboratory became a leading, international, series manufacturer with the largest program of stepper motors and power stages. The inventive improvement of our well-engineered products has consistently set new goals on the market.

Consequently we intend to follow this path. For high-quality drive solutions, which are always targeted to the future.



phytron



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