



## Benefits from/of the PROFIdrive-Standards

- › PROFIdrive Workshops ..... ☒ Free
- › PROFIdrive Specification ..... ☒ Free for Members
- › PROFIdrive Test Specification ..... ☒ Free for Members
- › PROFIdrive Profile Tester ..... ☒ Free for Members
- › Independent Certification by PI ..... ☒ Certified Product

## Support by the Community Project

- › PROFIdrive Profile Device Source Code ..... ☒ Free
- › PROFIdrive Profile Controller Source Code ..... ☒ Free
- › PROFIdrive Implementation Guide ..... ☒ Free

## Benefits from Multiple Profiles



- › Standardized Application Interface for Motion Control and Encoders
- › Device Exchangeability
- › Uniform Diagnostics



- › Safety Integrated for Machines and Systems
- › Reusability of Safety Concepts
- › Interoperable Interface for Drive-Based Safety



- › Control and Measurement of Energy Consumption
- › Coordinated Switch-On and Switch-Off of entire System Parts
- › No external hardwired Systems required

More Information about PROFIdrive:  
[www.profibus.com/PROFIdriveMarketing](http://www.profibus.com/PROFIdriveMarketing)



PROFIBUS Nutzerorganisation e.V. (PNO)  
PROFIBUS & PROFINET International (PI)  
Haid-und-Neu-Str. 7 · 76131 Karlsruhe · Germany  
Phone: +49 721 96 58 590 · Fax: +49 721 96 58 589  
E-Mail: [info@profibus.com](mailto:info@profibus.com)  
[www.profibus.com](http://www.profibus.com) · [www.profinet.com](http://www.profinet.com)

© Copyright by PI 11/17 – all rights reserved – 4.01.2

## Drive Technology that boosts your Business!



**PROFIdrive**  
Motion . Drives . Encoder





**Interoperable, standardized and manufacturer-independent Interface**  
The PROFIdrive Profile covers all Applications relevant to Industry in the Respective Application Classes (AC):



Pumps, Fans and Conveyors



Positioning and Adjusting Drives



CNC, Robots and Electronic Gears

**AC1/AC2**

Adjustable-Speed Drives without/with Technology Function

**AC3**

Drives with Positioning Function

**AC4/AC5**

Synchronous Servo Applications  
and high-performance Motion Control Applications

**12 Benefits for PROFIdrive Users**

Ideal for flexible Machine Concepts

Quick Implementation of  
Customer-specific Requirements

Uniform Diagnostics

Maximum Dynamics and Precision

Interoperability and Exchangeability,  
also for Safety

Easy to Expand,  
fast Device Replacement

High-Performance  
Parameter Channel

Short Cycle Times up to 31.25  $\mu$ s

Reusable Program Modules

Flexible RT/IRT Cycle Times  
on one Single Bus

Independent Certification by PI

Standardized in IEC 61800-7  
and GB/T 25740

PROFIdrive-Technology is **» Future-Proof » Ready for Industry 4.0 » Compatible with PROFINET@TSN » THE Solution for your Needs**

