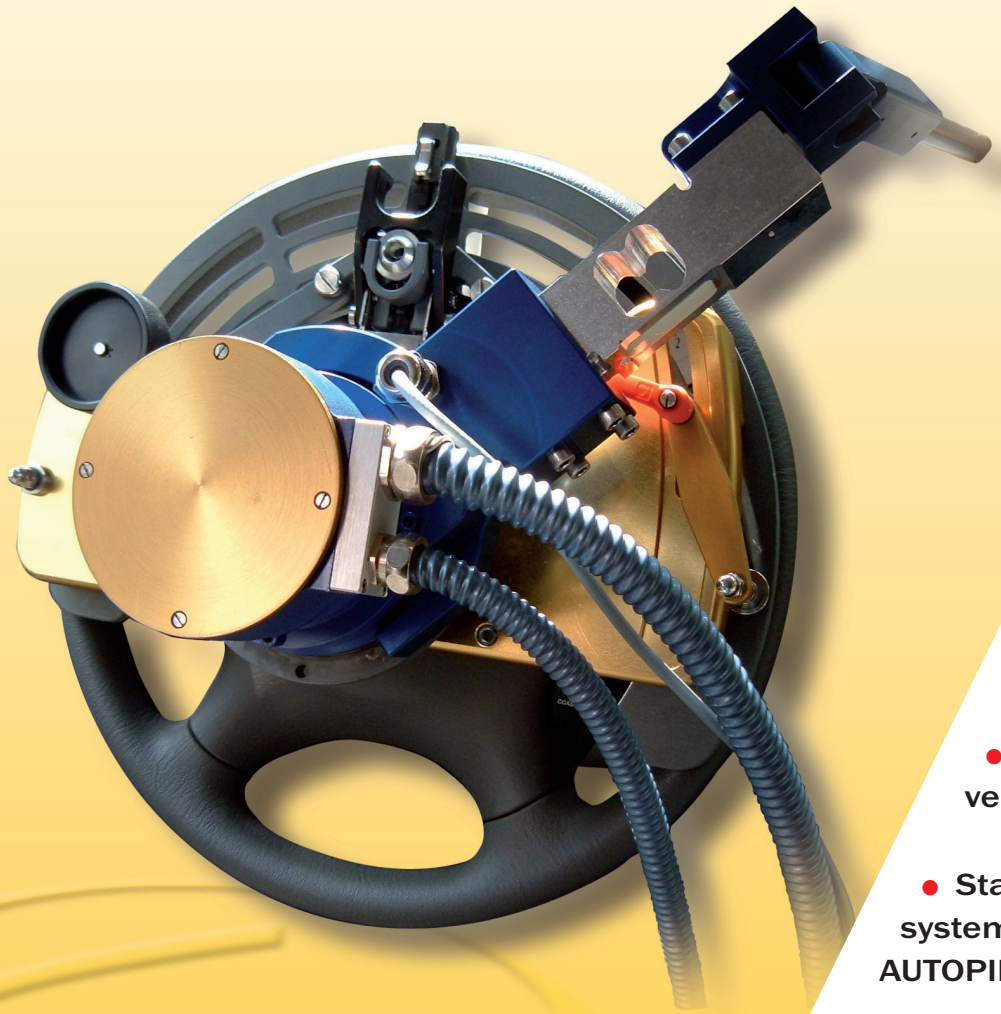
STÄHLE

Steering System
SSP3000

for computer controlled steering of vehicles



- To perform standardized and custom steering dynamic tests
- For NHTSA roll-over tests like J-turn and Fishhook
- Quick mounting to original vehicle steering wheel
- Stand-alone unit or actuator system or fully integrated to AUTOPILOT Drive robot systems
- High-dynamic brush-less drive with digital axis controller
- Build-in steer angle and steer torque measurement

STÄHLE ROBOT SYSTEMS

STÄHLE GmbH · Maybachstraße 12 · D-71299 Wimsheim · Germany
Tel. +49 (0) 70 44 - 9 15 61-0 · Fax +49 (0) 70 44 - 9 15 61-29
Internet: www.stahle.com · Email: info@stahle.com

Features (Stand-alone system variant)

- Windows User Interface software (GUI) to manage and edit system configurations, vehicle data and steer cycles
- Steer cycle editor with functions & profile definitions such as Sine - Triangle - Rectangle – Ramp, Repetition of recorded track data
- Power controller with build in computer system (19”/4 RU)
- Safety monitoring of steer angle, steer velocity, steer position and steer torque
- Inputs for 4 analog auxiliary signals for safety monitoring
- Data acquisition: Permanent logging and circular stack logging
- Digital axis controller and brushless DC motor with high resolution resolver feedback
- Integrated steer sensor for steer angle and torque
- Wind screen sucker mounting device with integrated vacuum pump and rechargeable battery for steer torque support
- Steering wheel adapter for passenger cars for fast installation without modifications to the vehicle (special truck adapter available)
- 12 VDC or 24 VDC or 42 VDC or 230 VAC power supply versions available
- Low friction with disabled drive allows manual intervention & driving
- Outstanding positioning accuracy of typ < ± 0.0528 ° (SSP3000-60)
- Consistent and precise motion also under load due to drives with high torque also at high steer velocities !

MOTOR & GEAR HEAD CONFIGURATION: Different drives configurations available

	Units	VERSION A	VERSION B	VERSION C	VERSION D
SYSTEM NAME		SSP3000-**25**	SSP3000-**60**	SSP3000-**80**	SSP3000-**50HS**
Article Number		SSP3K**25**.00	SSP3K**60**.00	SSP3K**80**.00	SSP3K**50HS**0
Continuous stall torque	Nm	34	90	130	100
Max. torque	Nm	121	213	300	229
Nominal Steer torque @ nom. speed	Nm	28	69	93	52
Nominal steer velocity @ nom. torque	Deg/sec	1086	1074	1008	1480
Max. steer velocity speed	Deg/sec	1158	1158	1158	1680

Options

- Additional closed loop modes
- Pedal actuators for throttle and/or brake
- Integration into full AUTOPILOT system to drive remotely or autonomous (manual transmission and automatic transm. vehicles)
- “Dead-man switch”
- Emergency Stop Buttons
- Joystick driving
- Path following
- Wireless Remote control
- Interfaces to host system
- Autonomous Driving System

Represented by: