

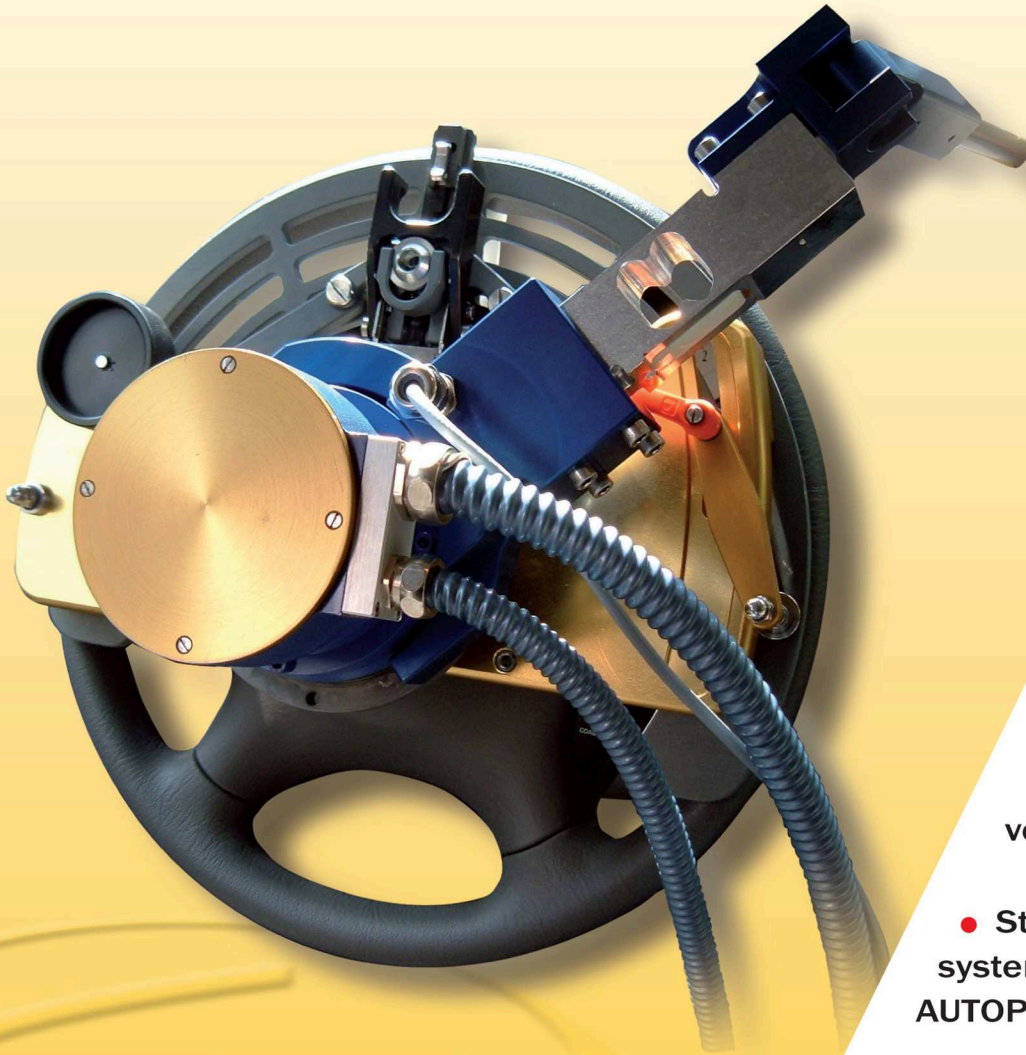


**STÄHLE**  
ROBOT SYSTEMS

# 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

## Features (Stand-Alone System Variant)

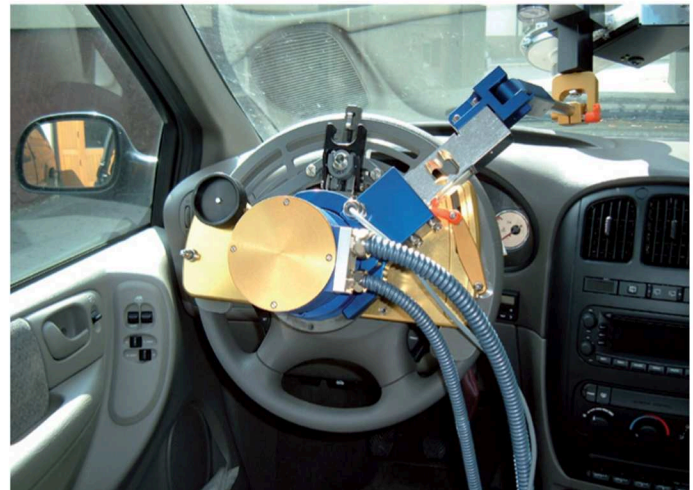
- Windows User Interface software (GUI) to manage and edit system configurations, vehicle data and steer cycles
- Steer cycle editor with functions & profile definitions such as Sine - Triangle - Rectangle - Ramp, Repetition of recorded track data
- Power controller with built-in computer system (19" / 4 RU)
- Safety monitoring of steer angle, steer velocity, steer position and steer torque
- Inputs for four (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)
- 12VDC or 24VDC or 42VDC or 230VAC power supply versions available
- Low friction with disabled drive allows manual interventions & driving
- Outstanding positioning accuracy of typ  $\leq \pm 0.0528^\circ$  (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
<b>SYSTEM NAME</b>		<b>SSP3000-25</b>	<b>SSP3000-60</b>	<b>SSP3000-80</b>	<b>SSP3000-50HS</b>
Article Number		SSP3K <b>25</b> .00	SSP3K <b>60</b> .00	SSP3K <b>80</b> .00	SSP3K <b>50HS</b> 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 transmission vehicles)
- "Dead-Man Switch"
- Emergency Stop Buttons
- Joystick driving
- Path following
- Wireless Remote Control
- Interfaces to host system
- Autonomous Driving System



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