



[GATEWAY
to new technologies.]

... for the mobile application

The rotary actuator E3 is as specially constructed for the mobile application. This engine goes after the gear principle and needs, in case of its compact construction, a small place. The Eckart E3 finds in almost all sectors its application. Automotive engineering, building – and civil engineering, tool machines and so on.

For example staging:

If the rotary actuator is the bearing for the complete bearing pressure and the rotating mechanism integrated. Therefore the working platform must not be mounted separately. Furthermore has the rotary actuator a hole, where tubes or cables can put through. In case of safety regulations reasons can there be put through a screw with the screws will be the plates from the brackets or from the working platform extra fixed. Even by a damage of the rotary actuator, for example in axial direction can the working platform not be detached.

Rotary actuator E3

Hydraulic / 210 bar

That even by a sideways action of the working platform in each between position, a waggle of the platform not happens, will be for first the turning threads free from backlash, second the ball bearing free from backlash build in, and thirdly there will be not used any both-way compact seals.

Furthermore Eckart offers valve block, which can be mounted with hollow screws on to the pressure connection holes. The valve has furthermore the following functions:

- Loading hold function
if the working platform wants to lower in case of diagonally position.
- Clamp function
that the working platform does not shake by any holding position.
- Overpressure function
that overpressure, is it in case of the hydraulic system or in case of temperature range, does not destroy the actuator.



- ultra compact, robust construction
- exact, almost free from backlash positioning
- no leakage in the inside, in case of that double shaft- and piston-sealing (lip seal)
- hydraulic seals concerning the newest stand of technic
- any intermediate angle possible
- high bearing charge

- one- or both-way attachment of the load possible
- the torque is the same in both directions
- all parts are out of high strength steels
- continuous shaft hole
- flange thread in metric or inch possible
- non-standard options on request



Size (piston-Ø)	95	125	150	170
torque at 210 bar [Nm]	720	1250	2350	3600
angle of rotation	180°/360°			180°
	and any intermediate angle			
medium	particularly mineral oil, others on request			
Ø A	135	170	197	230
Ø E	19	35	46	63,5
K at 180°	155	189	224	255
K at 360°	213	268	316	
max. allowable operating pressure	210 bar			

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