

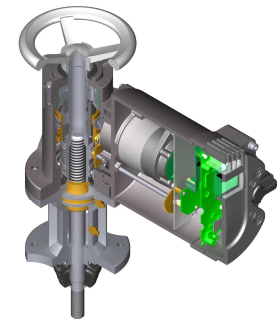
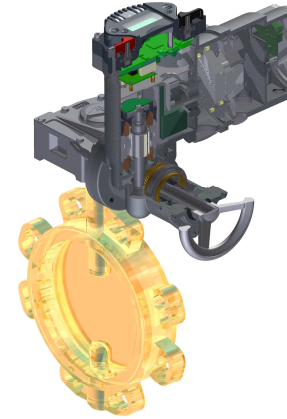
compact multiturn actuator CM

the all-rounder
perfect combination of well proved and
new technologies

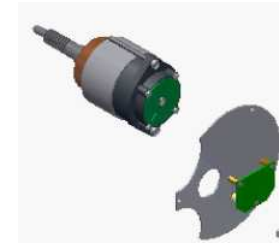


requirements (1)

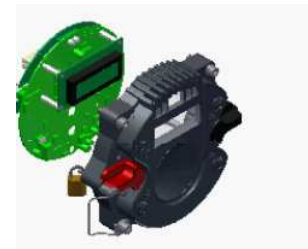
- compact and lightweight
- 90° rotatability of the display
- universal usage – for rotary, part-turn and linear movements
- non-intrusive setup
- speed and torque adjustable for user
- manual override – no lever needed to use manual operation
- mode of operations from S2-S9



requirements (2)



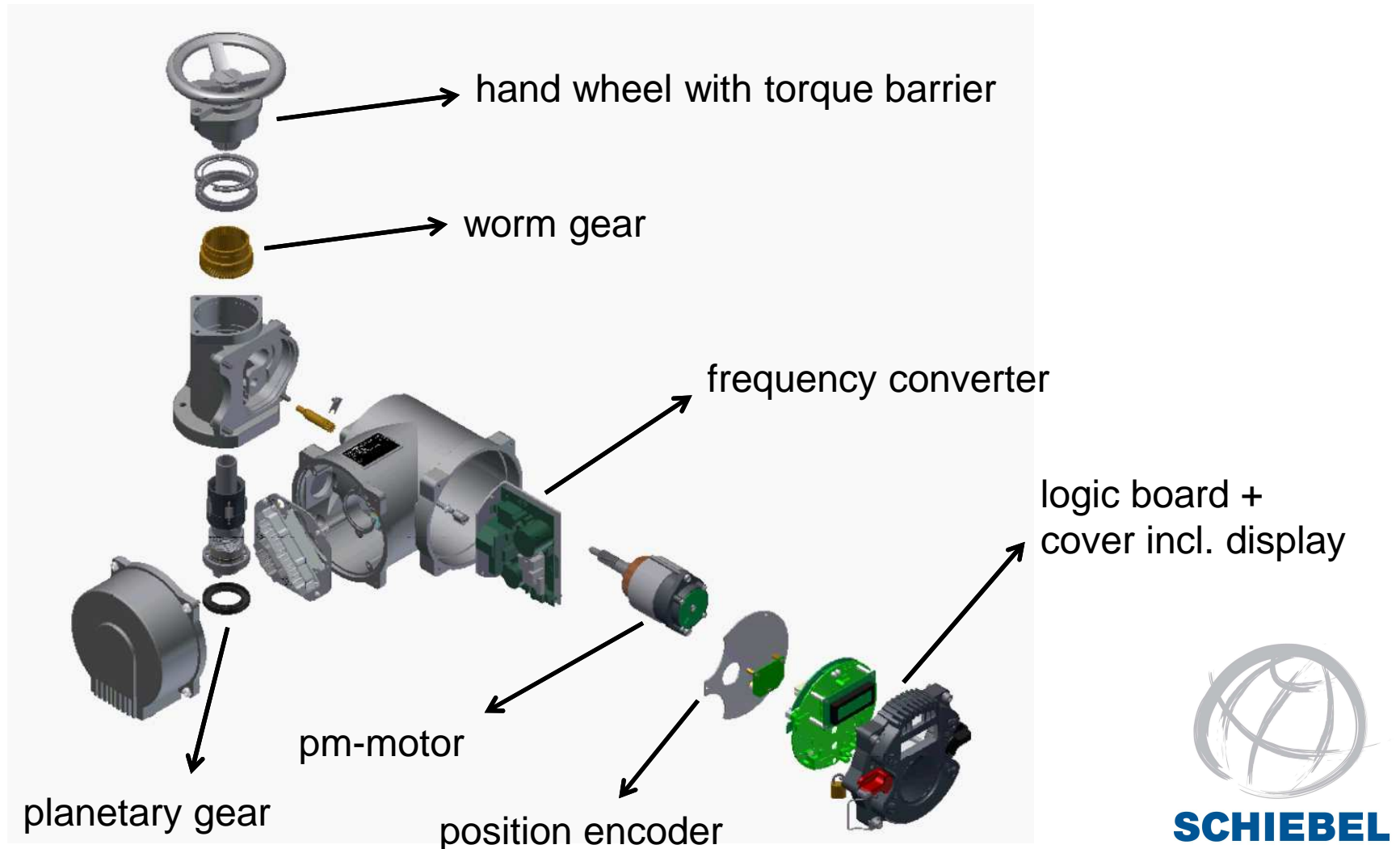
- newest motor technology → pm-motor controlled by a frequency converter
- one actuator for different voltages on AC/DC
- well proved technology of our integrated control SMARTCON
- energy efficient → high efficiency
- low noise and low wear
- high dynamic range and perfect control attributes
- less sealing surfaces and high corrosion protection

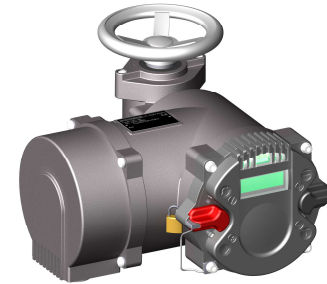
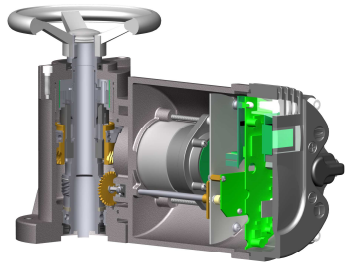


assembly – short video



assembly - components





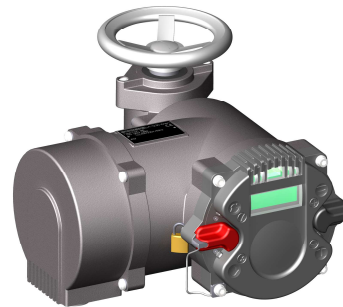
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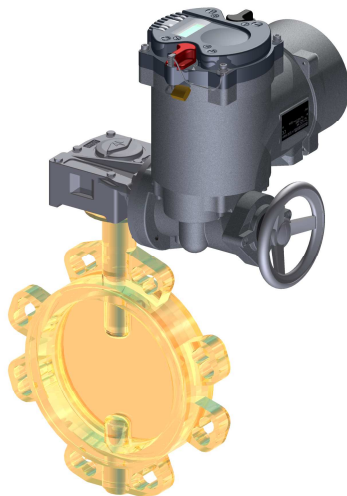
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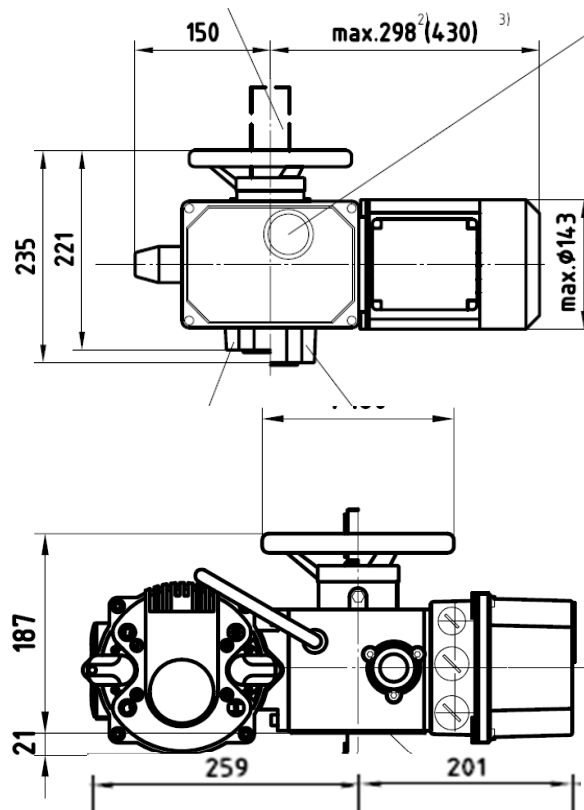
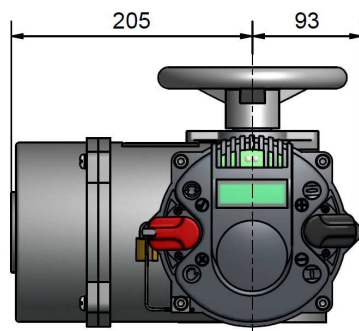
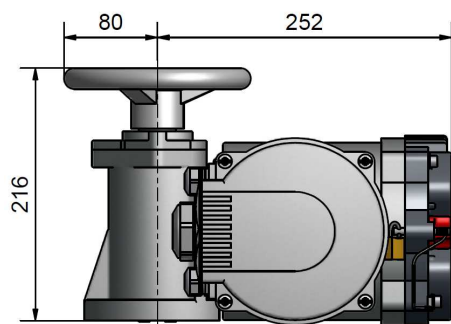
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movement



CM vs. AB3 CSC

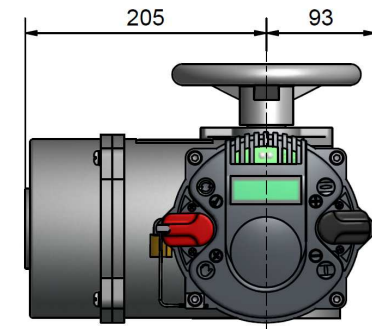
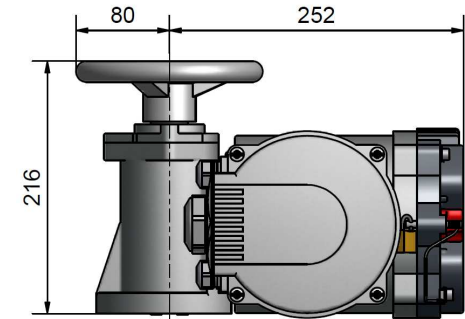


dimensions CM vs. AB3 CSC [L x B x H]
[298 x 332 x 216] vs. [460 x 448 x 208]

weight CM vs. AB3 CSC
9,5kg vs. 23kg

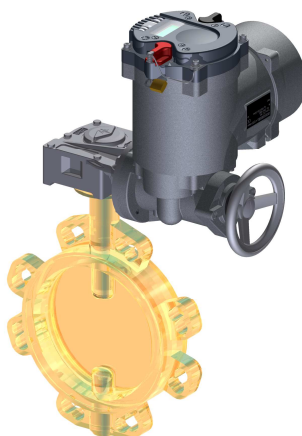
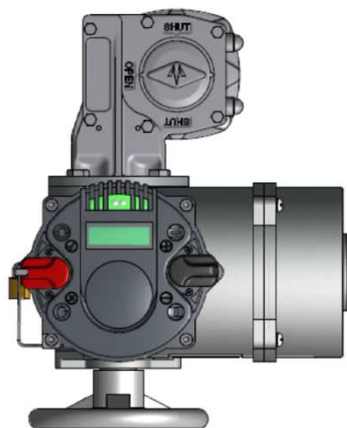
Key Facts ROTARY ACTUATOR

- Max. 32Nm torque
- Max. 16Nm torque for controlled operation
- Variable speed from 3,5 r/min up to 70 r/min
- Travel adjustable from 0,25 rotations to 100 rotations completely non-intrusive
- Flange F10 according to ISO standard
- all output shafts available
- Temperature range from -20° C to +60° C
- Weight 9,5kg



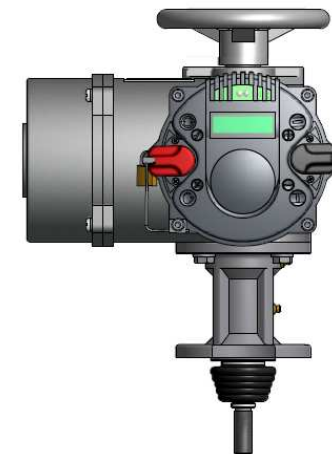
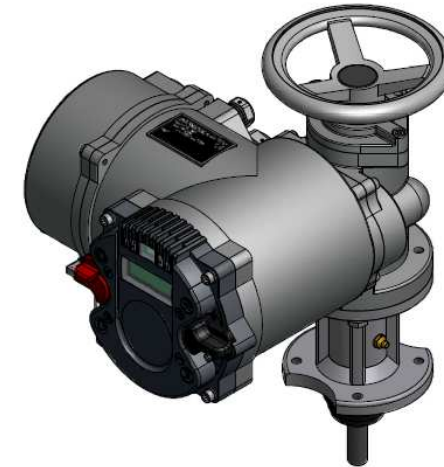
Key Facts QUARTERTURN ACT.

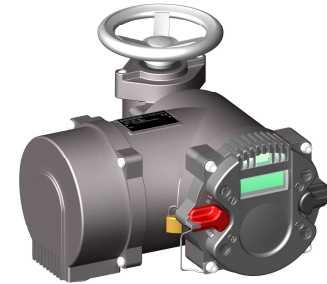
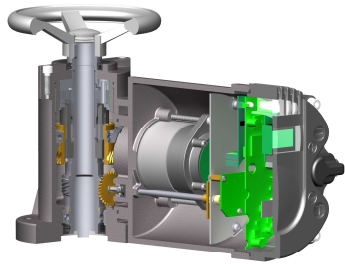
	CM + MF10 rCM + MF10	CM + MF12 rCM + MF12	CM + MF14 rCM + MF14	CM + MF12/SI3.5 rCM + MF12/SI3.5	CM + MF14/SI3.5 rCM + MF14/SI3.5
max. torque [Nm]	352	358	518	1.000	1.708
max. torque for controlled operation [Nm]	176	179	259	500	854
manipulating time [s]	8,6 bis 171	9 bis 180	13 bis 257	31,5 bis 630	45 bis 900
angle [°]	90 +/- 5° to be setup completely non-intrusive				
weight [kg]	17	21,5	26,5	27	34



Key Facts **LINEAR ACTUATOR**

	CM + L50 rCM + L50	CM + L100 rCM + L100
max. force [kN]	15	15
max. force for controlled operation [kN]	7,5	7,5
speed [mm/s]	0,24 bis 4,7	0,24 bis 4,7
max. stroke [mm]	50	100
weight [kg]	16,5	18,5





compact multiturn actuator CM

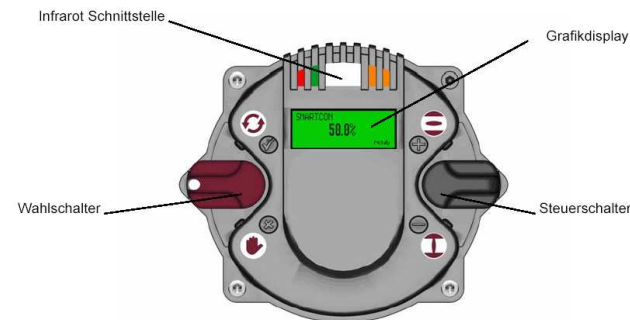
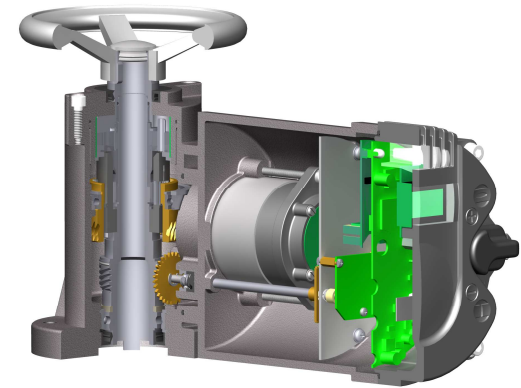
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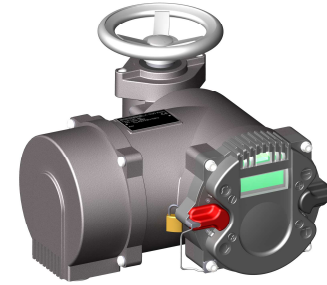
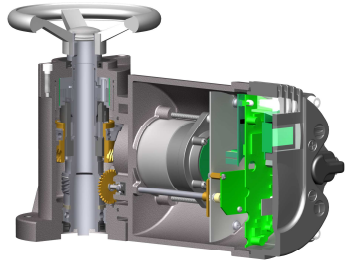
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new technologies



well proved - SMARTCON

- integrated RISC processor
- LCD display
- 4 LED's to visualize the status
- lockable switch for LOCAL – OFF - REMOTE
- switch for local electric operation for ON – STOP - OFF
- 5 binary inputs and 8 binary outputs – free parameterizable
- easy failure diagnostics due to history data
- easy connection to existing bus systems like Profibus, Device.Net, Powerlink,.....
- software options
 - ER feedback signal 4-20mA
 - SR positioner 4-20mA
 - ID system identification (Tag No.; KKS)
 - AP valve characteristics adaption
 - ...





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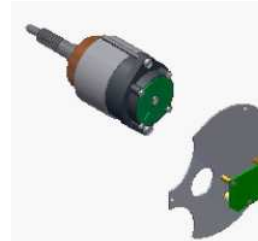
what's new? – design and technology (1)

- new design - technology
 - 4 x 90° rotatable display
 - low number of sealing surfaces
 - power supply from 115V to 230V AC or DC
- magnetic position encoder
 - contactless acquiring of travel
 - completely non-intrusive
- housing out of aluminium
 - less weight
 - high corrosion protection
- controlled by a frequency converter
 - low size ratio (power supply and control in one board)
 - low-wear (no reversing contactors needed)
 - adjustable speed only software option



what's new? – design and technology(2)

- controlled by a frequency converter
 - high accuracy for control applications
 - low noise
- pm-motor
 - low power consumption
 - high power density
 - low size ratio
- planetary gear
 - high efficiency
 - low size ratio and at the same time high torque transmission
- manual override
 - either no lever or button needed to change to manual operation



coming soon

- explosion proofed design
- import and export of parameters, as well as setup via bluetooth connection → software based on ANDROID
- interpolation of CM series up to 120Nm (CM05, CM08)
- 5 RGB LED's instead of 4 standard LED's to visualize according to customer requirements

