

Active Contact Flange ACF



Robots under Pressure

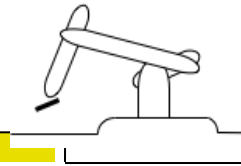


Best Practice
Amortization Example



REFURBISHMENT in low-wage area

Premium car manufacturer: Filler sanding with Active Contact Flange



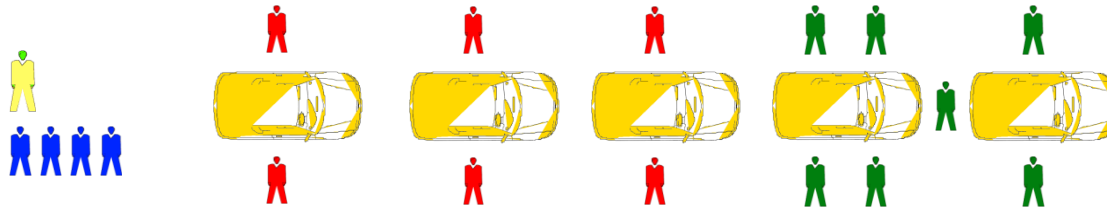
FER ROBOTICS

Compliant Robot Technology GmbH

Refurbishment of a facility in a low-wage area

The unit sands the primer on the whole vehicle before the top coat is applied. In the sanding process the Active Contact Flange is responsible for the correct contact force to achieve a perfect and even finish.

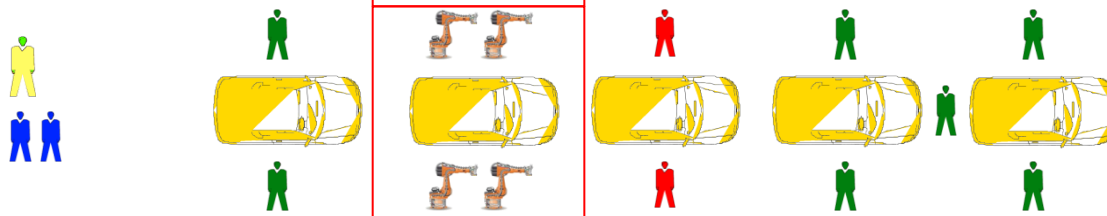
Initial situation:



- Supervisor
- Stand-by eccentric sanding
- Eccentric sanding ¹⁾
- Manual sanding

1) Exceed the limit value for daily exposure on hand-arm vibration.

Improvement:



Initial situation: 18 operators
(6 of these are exposed to a health risk due to hand-arm vibrations)

Improved situation: 12 operators
(only 2 of these are exposed to a health risk due to hand-arm vibrations)

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One time investment

Cell: 4 grinding robots with Active Contact Flanges	€ 800,000,-
Other project costs, infrastructure and utilities client-side	€ 250,000,-
Total	€ 1,050,000,-

Running cost advantages per year

Additional utility costs (electricity)	€ + 30,000,-
Additional costs for maintenance and replacement parts	€ + 40,000,-
Savings in labor costs (6 employees at € 30,000 x 4 shifts)	€ - 720,000,-
Savings in sanding materials (150,000(-50%)x € 0,15)	€ - 22,500,-
Total	€ - 672,500,-



Amortization period of 1.6 years



ROI after 5 years: 17% per year