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MecanoLav design and manufacturing

Cleaning machines for mechanical parts



- Created in 1923
- Based in France, in Normandy
- More than 1500 machines sold around the world
- Global service partners : USA, Mexico, England, Sweden, China, Spain, Portugal, Czech republic, Germany, Denmark...



SURFACE ALLIANCE

EMO
competence in cleaning

HÖSEL
Innovative cleaning solutions

LPW
More than cleaning

MecanoLav
The cleanliness technology

NGCT
Next Generation Cleaning Technologies



One-piece flow cleaning

Revolution



CLEAN & DRY
in **30** SECONDS



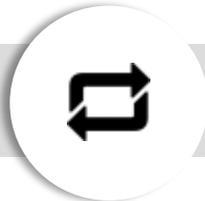
FAST



Clean it in 30 seconds
The technological breakthrough



30 seconds cycle time
including cleaning & drying



Fast reference change over
from one parts reference to another



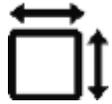
Single part cleaning
no buffer required

Mecano
Fast

COMPACT



Save floor space
Improve your layout and production flow



Only 2 m² / 22 ft²

allows integration within the manufacturing cell



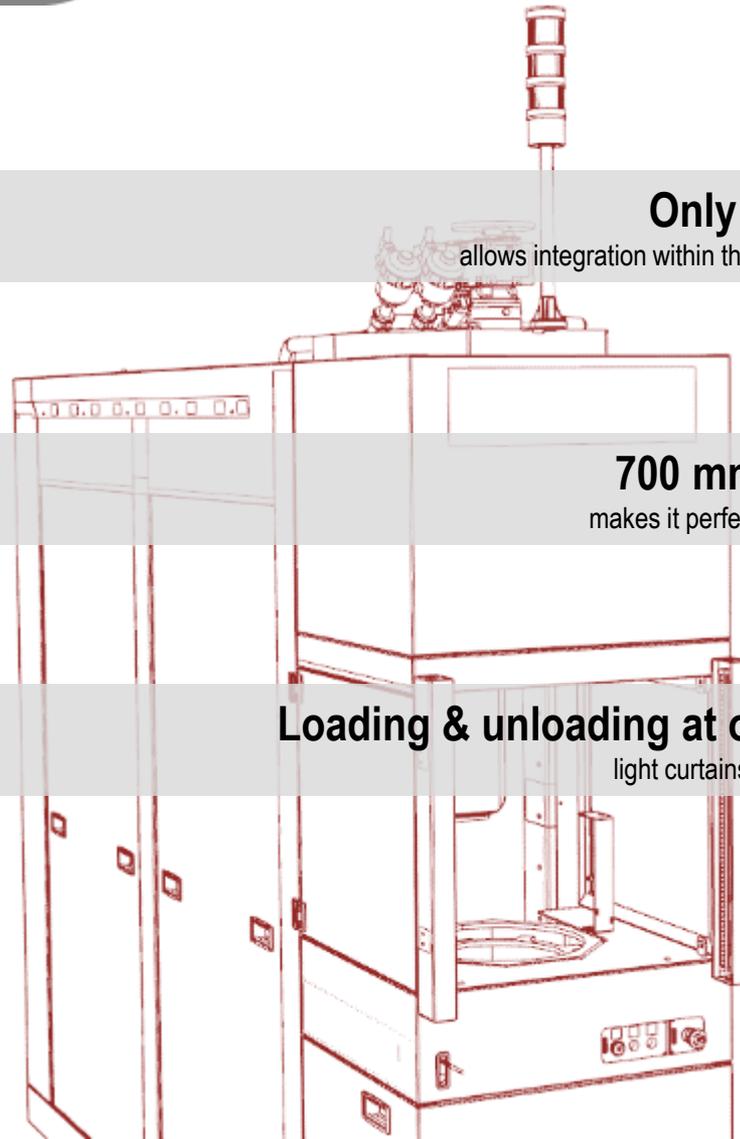
700 mm / 28" wide

makes it perfect for cell integration



Loading & unloading at one position

light curtains for safety operation



EFFICIENT



Improve your competitiveness
Overall operation cost reduced up to 50%



Reduce operating costs by 50%
to enhance customer's competitiveness



Improve loading / unloading time
by integration of a round table



Robot friendly
fully adapted for manual or automated loading & unloading

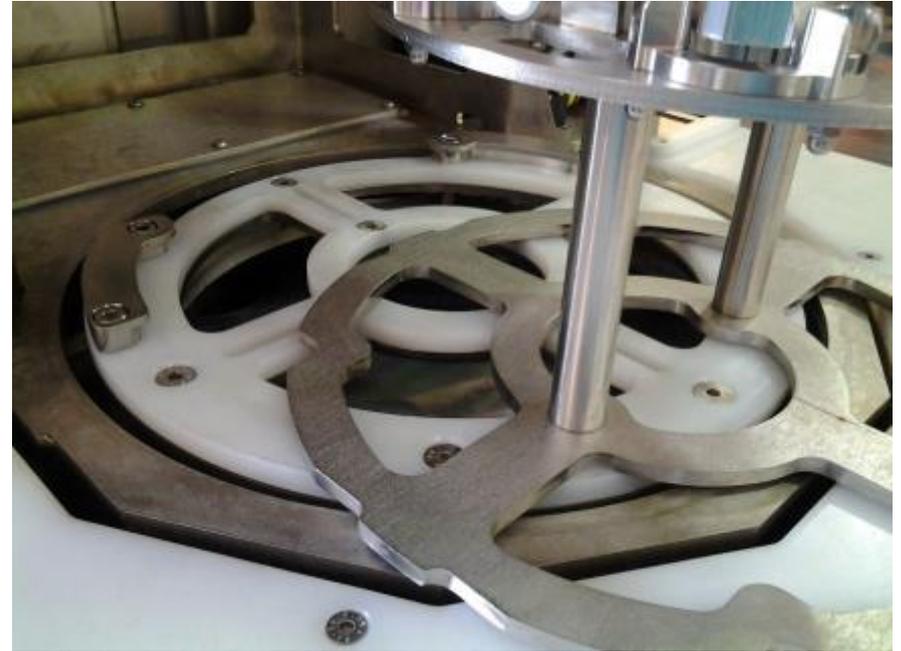


Particle cleaning
full meets with ISO 16232 standards





MecanoFAST concept : many configurations possible to adapt to all customer needs.



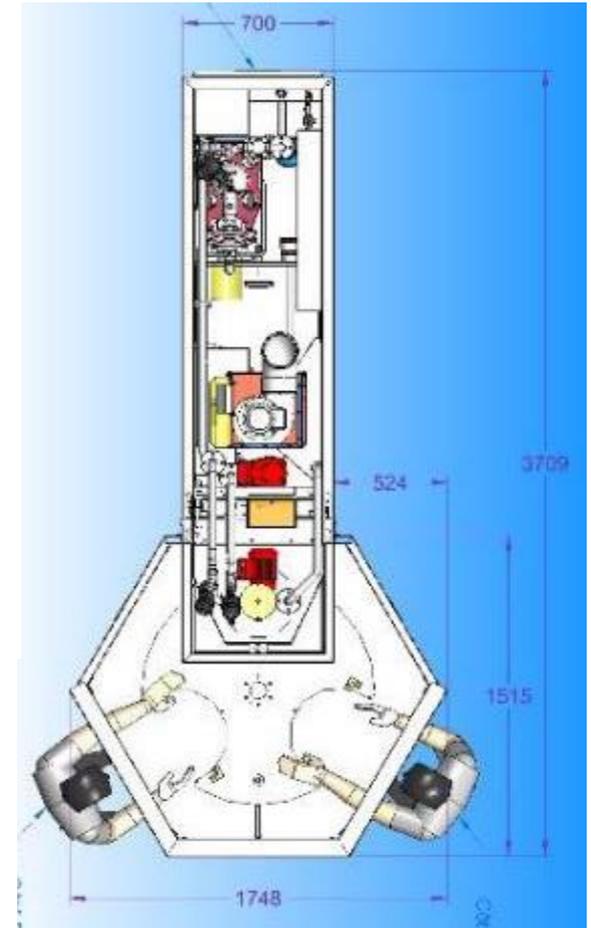
EASY & FAST CHANGE OVER



HIDDEN TIME LOADING / UNLOADING
with round table



Version with loading round table





**Manual loading with
safety light curtains**



**Automatic loading
in robot cell**



MecanoFAST in robot cell during an exhibition



HIGH EFFICIENCY for complex parts

- Minimum particle size
- Reduced residual weight
- Low energy consumption < 0,02\$

Class	Particle count	Standardized count (1)	Cleanliness level (2)	Specification limit (2)	Conformity
15 - 150 µm (C-F)	28489	9929,9	14	250000 (18)	<input type="checkbox"/> C
150 - 400 µm (G-H)	135	47,1	6	130 (7)	<input checked="" type="checkbox"/> C
400 - 1000 µm (I-J)	2	0,7	0	8 (3)	<input checked="" type="checkbox"/> C
>= 1000 µm (K)	0	0,0	00	0 (00)	<input checked="" type="checkbox"/> C
Total count	28626	9977,7			
CCC : A(C-F14/G-H6/I-J0/K00)					
Sample : conform					

(1) 1 part with surface area 2869 cm² related to 1000 cm².

(2) Related to standardized count.





Electric supply power divided by 2

MecanoFAST = 30 kW
Tunnel washer = 60 kW



Water consumption divided by 4

MecanoFAST = 10l/h
Tunnel washer = 40l/h

LOW ENERGY CONSUMPTION

**Reduce operating cost per 50% to enhance
customer's competitiveness**



Turbo body

1,32 mg / 1000 cm²
0 particles > 500 μm



Rack housing

1 mg / part
0 particles > 600 μm



Bearings

< 2 mg / 1000 cm²
1 particle > 300 μm / 1000 cm²

IMPROVE YOUR CLEANLINESS RESULTS

Particle size – gravimetry – surface tension



RACK HOUSING



Material : Aluminum

Dimensions : Ø 25,9mm (1,02")

H 258mm (10,15") – 437,4mm (17,22")

Contamination : Cutting oil, chips

Cleanliness requirements:

- 1mg / part
- 0 particles > 600µm



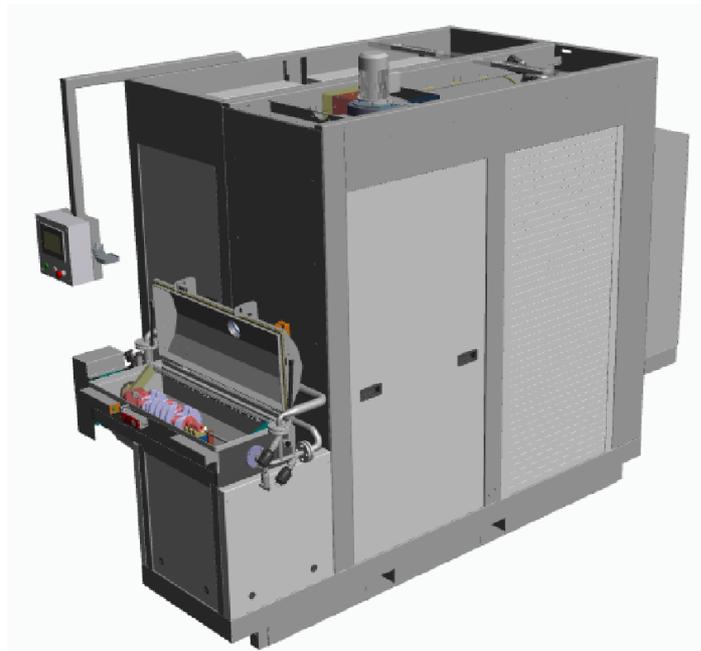
42 seconds / part

CRANKSHAFT

Manual or automatic loading / unloading

Designed for multi crankshaft reference (without tooling change over)

Work chamber can be designed on vertical way.





CRANKSHAFT



Perfectly dry including
blind and oil feed holes

Cycle time : 32 seconds
Including loading/unloading



MODULATOR



Material : Aluminium

Dimensions : Ø 25,9mm (1,02")

H 258mm (10,15") – 437,4mm (17,22")

Contamination : Emulsion, chips, particles

Cleaning target : 40nM/n surface tension



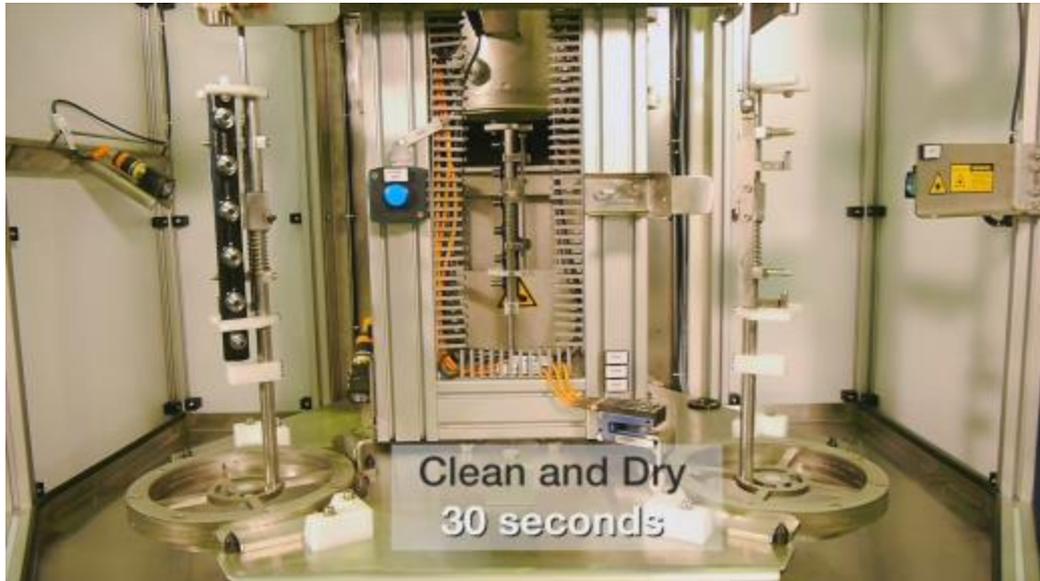
One tool for all parts size



15 seconds / part
Cleaning of 6 parts at the
same time



COMMON RAIL



Dimensions : 5 types
Ø 22-27mm x H 254 - 382mm

Contamination : cutting oil, chips

Cleanliness requirements:

- 5mg / 1000 cm²
- 0 particles > 400µm

3 position rotary table:

Loading / unloading in hidden time



45 seconds / part

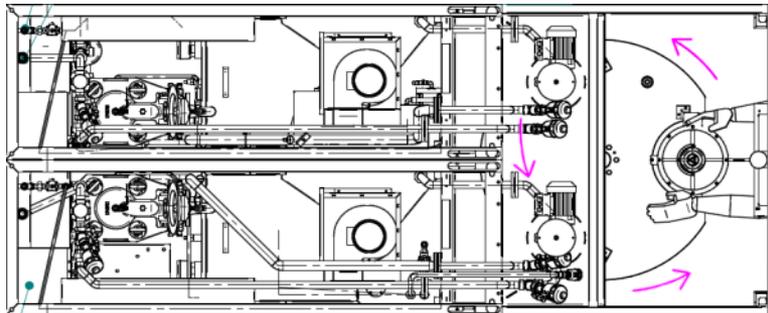
DIFFERENTIAL TORQUE HOUSING



Degreasing before laser welding

Perfect rinsing & drying

High rinsing bath quality due to minimum fluid transfer

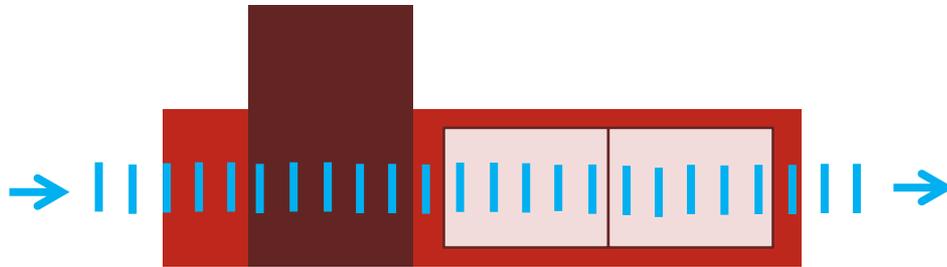


MecanoFAST WR

Double module : washing & rinsing

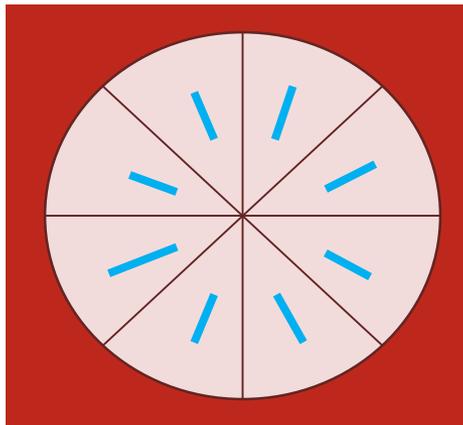
Round table 3 position

One-piece flow process



Tunnel washer

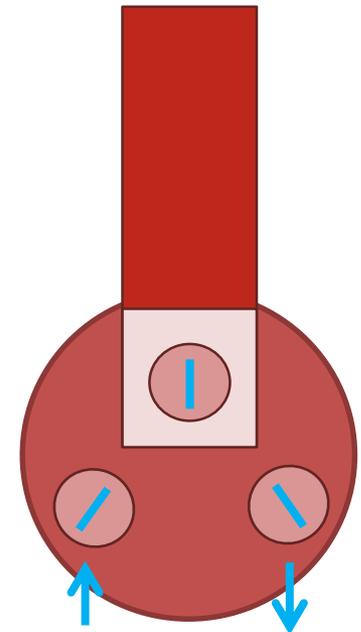
- Save floor space
- Minimize In / Out buffer
- Save time on production change over



Carrousel



MecanoFAST



MecanoFAST with
round table

MecanoFAST user

