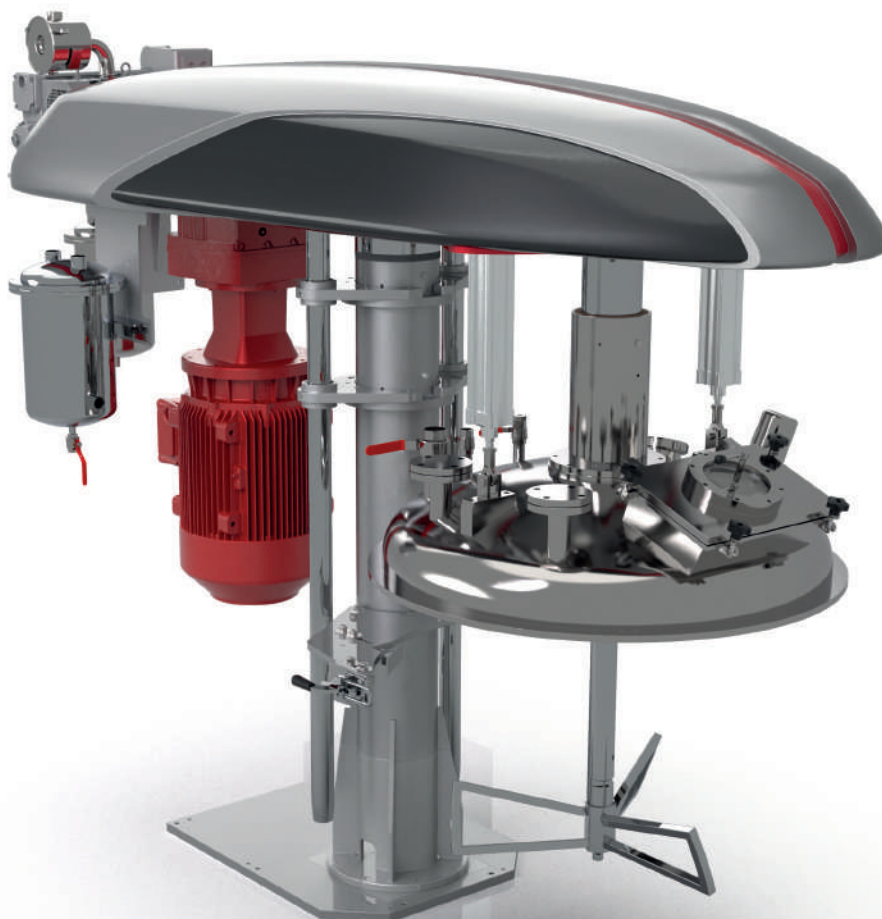


# DYNAMIX DCL

## LOW-SPEED SINGLE SHAFT MOBILE VESSEL DISSOLVER

**DYNAMIX DCL** mobile vessel Dissolvers are machines for medium and high viscosity products mixing, engineered and manufactured to work in difficult industrial conditions. Equipped with a single mixing shaft, also configurable with scraper and in vacuum version, they can meet every production need thanks to a wide range of engines up to 110 kW. This allows to manage products with viscosities from 50,000 Cp up to 1,000,000 Cp and batches up to 3,000 lt.



## ADVANTAGES

- Innovative technology enabling INDUSTRY 4.0 that optimizes business processes in terms of management time, costs and quality
- Continuous process control thanks to internal PLC
- Total integration with the production flow and the company ERP
- Efficient recipe management, high product repeatability and reduction of production waste
- Minimization of breakdowns and unwanted downtime by predictive maintenance indicators
- Remote assistance for immediate customer support
- Special design allowing for an easy maintenance of the transmission system

## TECHNICAL FEATURES

- Thick carbon steel supporting structure with anti-vibration reinforcements
- Rectified and chromed steel telescopic head holder column
- High thickness sheet metal head with anti-torsion reinforcements and pulley protection casings
- Shaft transmission system by belts and pulleys
- Hydraulic lifting system managed by heavy duty hydraulic power pack
- Shaft support with high performance ball bearings
- AISI 304 stainless steel mixing shaft
- Gear motor directly coupled to the mixing shaft
- AISI 304 stainless steel butterfly impeller
- Three scraping blades applied to the butterfly impeller by a AISI 304 stainless steel structure
- Flat lid for dust and vapor-tight processing or rounded lid for vacuum processing
- Different dust and liquid supply systems integrated in the lid
- Tank fixing system:
  - **Fast Clamping**, characterized by easy entering of the tank, fast locking and high resistance to lateral loads. Manual locking clamps with safety micro-contact for machine start only when the tank is blocked
  - **Double Centering Arm**, characterized by fork opening of the arms with automatic centering of the tank under the dispersion impeller while the support saddles facilitate the correct positioning of the vessel. The worm screw with increased thread guarantees an easy opening and closing of the locking system. High resistance to lateral loads. Possibility of motorizing the opening and closing of the locking system
- Electronic speed variation with inverter
- On-site control panel
- ATEX version



## INDUSTRY 4.0 READY

- Internal PLC
- Intuitive touch interface for the operator
- Ethernet connections

## INDUSTRY 4.0 OPTIONAL

- Wi-Fi operator control panel
- Router for remote assistance
- Latest generation MISURA software:
  - Preventive maintenance indicators
  - OEE (Overall Equipment Effectiveness) indicators
  - Panel with digital pointers
  - Software interface with customer ERP

## CONFIGURATIONS

Model	Single shaft	Single shaft with motorized internal scraper RI	Flat lid F for dust and vapor with impeller gliding G	Rounded lid SV for vacuum with impeller gliding G
F-G Model	X		X	
RI-G Model		X	X	
SV-G Model	X			X
RI-SV-G Model		X		X

## ACCESSORIES

- Motorized internal scraper (RI) with opposite movement compared to the dispersion impeller, which can keep the vessel wall constantly clean, conveying the product to the central area even during the disareation phases (in place of the three scraping blades applied to the butterfly impeller)
- Condenser, vacuum pump and safety clamps for vacuum version (SV) machines
- Lifting column with external fairing
- Manual or automatic up and down system to lift and lower the impeller during mixing (G)
- Safety pressure switch
- Servo-ventilated engine for main engine forced cooling
- Product temperature sensor integrated into the shaft
- Working cycle timer
- Butterfly and ball valves for raw materials loading
- Reinforced tank with cooling cavities and external insulation for heating
- Reinforced extruder-ready tank
- Integrated weighing platform system through base with load cells
- Washing system (only in case of a rounded lid with lid-tank locking clamps):
  - with rotating washing heads fixed on the lid
  - with motorized immersion lance and rotating washing head

## TECHNICAL DATA

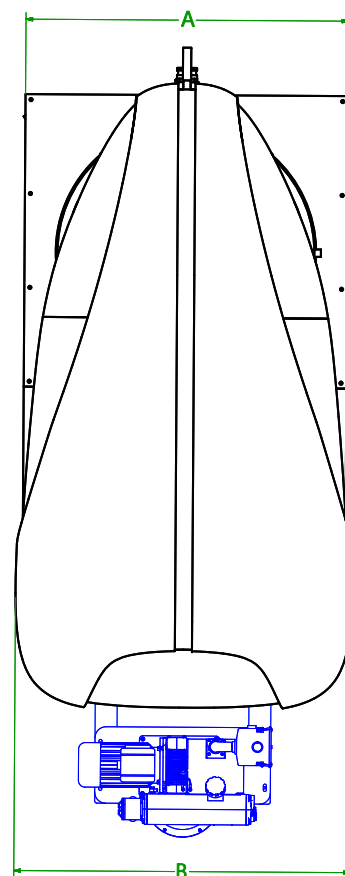
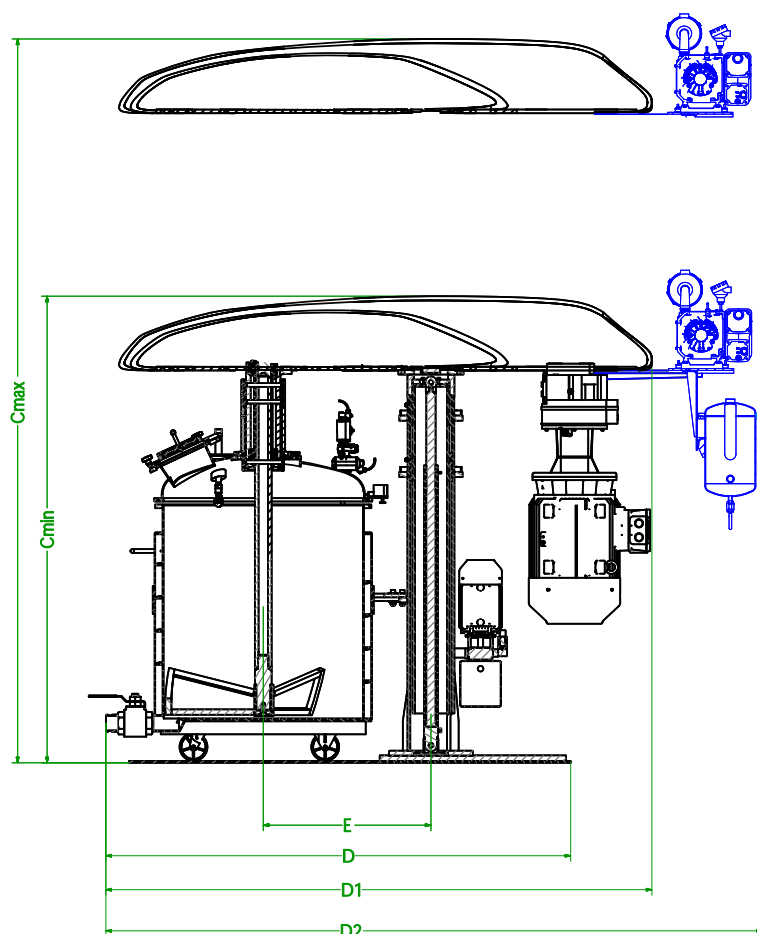
Model	Main engine power		Head lifting engine power		Scraper engine power*		Vacuum pump engine power**		Vacuum pump payload**	Mixing shaft speed (rpm)	Scraper shaft speed (rpm)*	Butterfly impeller diameter (mm)	Maximum indicative useful volume (lt)
	Kw	Hp	Kw	Hp	Kw	Hp	Kw	Hp					
DCL 20	15	20	1,5	2	1,5	2	2	2,7	45	0-400	11	600	300
DCL 30	22	30	1,5	2	1,5	2	2	2,7	45	0-400	11	900	350
DCL 40	30	40	1,5	2	1,5	2	2	2,7	45	0-400	11	900	400
DCL 50	37	50	2,2	3	2,2	3	2	2,7	63	0-300	10	1000	570
DCL 60	45	60	2,2	3	2,2	3	2	2,7	63	0-250	10	1150	700
DCL 75	55	75	2,2	3	2,2	3	2	2,7	63	0-250	10	1200	950
DCL 100	75	100	2,2	3	4	5,5	2,7	3,6	63	0-250	8	1250	1050
DCL 125	90	125	3	4	4	5,5	2,7	3,6	63	0-200	8	1300	1250
DCL 150	110	150	4	5,5	4	5,5	5,5	7,4	63	0-200	8	1400	1450

\* applicable only to RI versions

DATA ARE PROVIDED FOR INDICATIVE PURPOSES ONLY

\*\* applicable only to SV versions

## DIMENSIONS



Model	Machine dimensions (mm)						
	A	B	Cmin - Cmax	D	D1	D2*	E
DCL 20	1200	1550	3000 - 4300	2850	2850	3450	950
DCL 30	1200	1550	3000 - 4300	2850	2850	3450	950
DCL 40	1200	1550	3000 - 4300	2850	2850	3450	950
DCL 50	1400	1550	3000 - 4300	2850	2850	3450	950
DCL 60	1400	1550	3000 - 4300	2850	2850	3450	950
DCL 75	1500	1550	3000 - 4300	2850	2850	3450	950
DCL 100	1500	1000	3100 - 4400	3100	3100	3700	1150
DCL 125	1700	1000	3200 - 4500	3500	3500	4100	1150
DCL 150	1700	1000	3200 - 4500	3500	3500	4100	1150

\* applicable only to SV versions

## APPLICATIONS

Thick coatings, glues, putties, sealants, cosmetic products, plasters, polyesters, silicones, adhesives, plastic materials