

MIXER FEEDER

Weighing and dosing management and mixer functions driving, with all-in-one electronic or two separate units

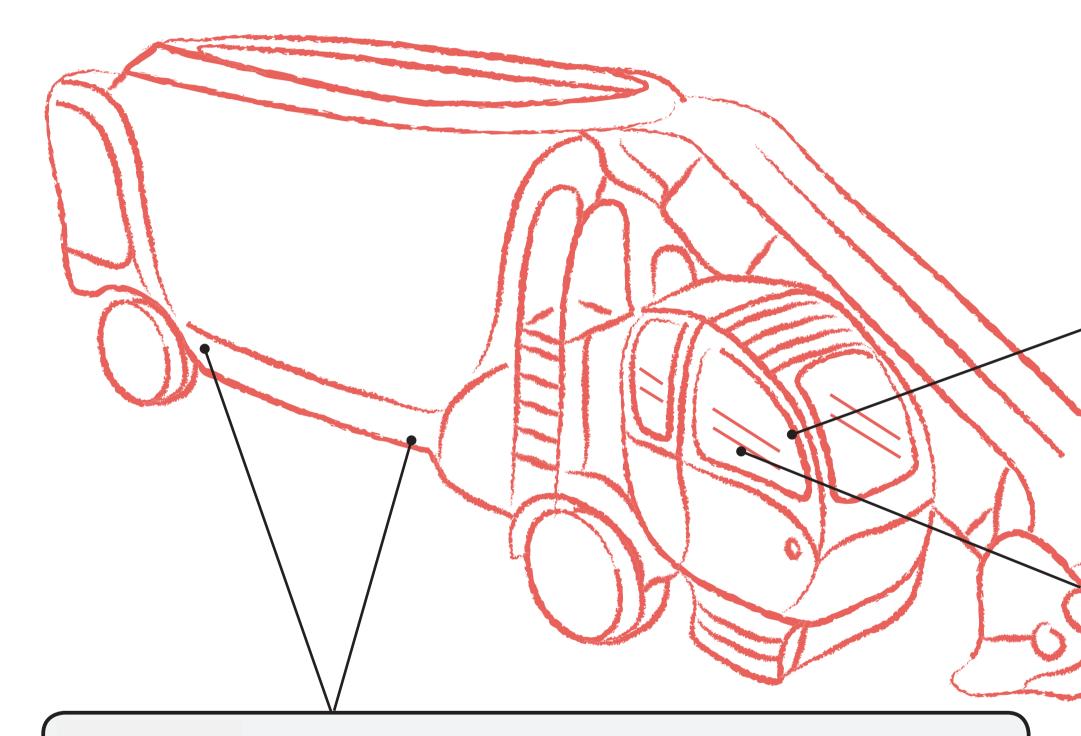






SOLUTION FOR **SELF-PROPELLED MIXER FEEDER**

Mixers weighing with dosing formulas (recipes) management or manual setting of the weight to be loaded. Display and management of **statistics** and **counters**, with data storage and exportationthrough **USB** memory to the Data Log software. Interfacing functions also available on color operating panel with touch screen integrated with the machine. **Dynamic weighing** to guarantee maximum accuracy, even during movement. Modular configuration, based on machine outfit. Easy, intuitive and ergonomic command and display systems, also available with **customized** keyboard with customer's colors and logo.





Weighing system: WM series weighing modules for signal acquisition from





PC Software: easiness on creation of forumlas to be transferred to the indicator with Data Log LITE.Detailed reports to allow analysis of batching and consumption data. Data transfer between PC andweighing system through USB memory.



Weighing and batching control

unit FIVE: optimal visibility, acoustic and visual signals, advanced functions to help the operator during components load and mixed product unload.

OPTIONS



Customized keyboard with customer's colors and logo



Command and interface systems: weighing data, commands for formylas execution and hydraulic functions, main vehicle parameters, all always available in the cabin on the all-in-one interface of the INTEGRATED OPERATORE PANEL. Weight and working statistics display and storage, data importation and exportation with the Data Log software, for automatic formulas update and performed work analysis.



Accessories for automatic print of



components and weights referring the job operations of the mixer and display of weight to be loaded in different positions on the mixer.

SOLUTION FOR TRAILED MIXER FEEDER

Mixers weighing with dosing formulas (recipes) management or manual setting of the weight to be loaded. Electronic command of the solenoid valves driving the mixer feeder functions: belt conveyors, doors, counter-knives, milling cutter, etc. Display and management of statistics and counters, with data storage and exportation through USB memory to the Data Log software. Dynamic weighing to guarantee maximum accuracy, even during movement. Lights, beacons, cameras or other devices driving available. Modular configuration, based on machine outfit. Easy, intuitive and ergonomic command and display systems, also available with customized keyboard with customers colors and logo.



Accessories: Saving data on USB memory or automatic printout of components and weights, referring the job operations of the mixer: the Data Reader USB Kit and the Thermal Printer allow quick and easy check of the batching and mixing operations.

Remote Display: display the weight to be loaded in different positions on the mixer to help the user during load operations, thanks to one or more remote displays contemporarily active.



Remote Command: managing the main weighing and batching functions of the FIVE series indicator directly from tractor's cockpick, for maximum comfort and efficiency.



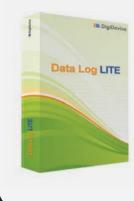
Weighing and batching control unit FIVE: optimal visibility, acoustic and visual signals, advanced functions to help the operator during components load and mixed product unload.



Solenoid valves command to drive the counter-knives movement into the mixer, based on timing defined on FIVE series indicator. **Load cells** for installation on axles, drawbar and hubs. Maximum resistance to external agents guaranteed by specific treatments and decades of experience in the field. Wide range of pin and shear beam load cells, also produced based on customers request.







OPTIONS

PC Software: easiness on creation of formulas to be tranferred to the indicator with Data Log LITE. Detailed reports to allow analysis of batching and consumption data. Data transfer between PC and weighing system through USB memory.

Command and Interface Unit in the cabin: ease on management of the functions involved in mixer operations, thanks to the intuitive icon-based commands on ICON LCD display. Weighing data and commands to drive both formulas execution and hydraulic functions on the same interface unit. ICON unit with wireless connection to the HYDRA system, in order to have commands and visualizations also available in the cabin of the tractor or from the equipment used to load the components. Display and storage of working statistics.



Weight acquisition and device driving systems on the wagon: HYDRA LT20 and HYDRA WT20 modules, dedicated to the management of both On/Off and proportional type solenoid valves (belts, doors, counter-knives, millint cutter, etc.) and sensors acquisition. Maximum configuration flexibility, to drive not only solenoid valves, but also control of different devices, like lights, beacons, cameras, etc. Cascade connection of more modules available, to increase the outputs number and wireless connection to the ICON interface unit. HYDRA WT20 module with weighing electronics integrated in the hydraulic functions management unit, for systems with ICON command.









LT20 20 Outputs 2 PWM

20 Outputs 2 PWM Load cells input





OPTIONS



Direct reading of external sensors BUS connection port Emergency button onboard the machine

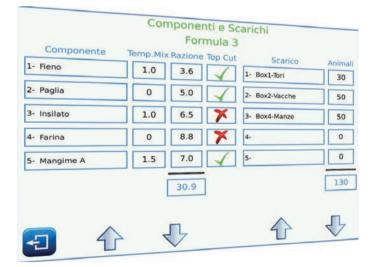
INTEGRATED OPERATOR PANEL

Selezionare la form Nomi Formule	Animali	Tot. Carico	Tot. Scarico	Top Cut	
1- Formula 1	100	3069	3069	1	
2- Formula 2	120	1800	1800	1	
3- Formula 3	130	4017	4017	×	
4- Formula 4	10	48	48	1	
5-	1	0	0	×	
6-	1	0	0	×	
7-	1	0	0	×	10
8-	1	0	0	×	IZ
9-	1	0	0	X	
10-	1	0	0	X	

- Panel PC for "mobile" applications, rough, with 10.4" color touch screen.
- Standard bus connections (CAN bus, CANopen, J1939, ...) for interfafce with the Electronic Control Unit of the vehicle and with all the devices connected on the bus.
- Bus connection to the Tufner systems for weight reading and formulas execution.

Display of the operation being performed (load or unload), with details like formula, component or unload box, weight to be loaded. Buttons on touch screen to command next component, weight lock/ unlock, as well as mixing stop. Command of the hydraulic circuits for counter-knives in and out in the mixer, also with timing sequence.

omponente:	Erba		componente
	a caricare Kg	Temp.Mix 90 sec	Interrompi conteggio
	Totale Kg	Peso Stabile	Blocca/Sblocca peso



Dosing formulas input, with components and rations based on animals number, mixing time between components, counter-knives selectable for each component.

Animals number definition for each unload point.

Display on the same operating panel of the status of the typical parameters for hydraulic, eletric and pneumatic circuits of the vehicle connected to the panel through standard bus.





Vehicle dashboard, with the indicators of the main parameters of engine and systems onboard, all in one panel.

SOFTWARE: DATA LOG

Tufner's DataLog software for PC, to create formulas, components, unloads and data exchange with the systems FIVE or ICON onboard the vehicle. Data base automatically updated with the working data saved on USB memory by the control unit on the mixer.

Working data analysis available with reports and exportation in standard formats.

Formulas Management

- Load and unload formulas creation, with name, to be transferred to the indicator
- Possibility to transfer to the indicator formulas selected among those in the database
- Animals number setting
- Pro-animal ration for each component
- Quantity to be unloaded for each unload

Components Management

- Up to 50 components can be inserted with name and transferred to the indicator
- Stocked amount displayed for each component
- Consumed amount displayed for each component

20	BLEND BIN 1 BLEND BIN 2 CAUGTIC WHEAT		8314 20200 25800	
	WASTE BREAD		151676	
	DUGAR BEET PULF NUTS OPANS SUADE	887020	205420 54992	
2	MACTE BILADE	1967296	8064	
5	BALE BLAGE SOCIAN BCARE	0		
	MAG FLAKES	1	0 7522	
33	DHOPPED STRAW	1. B. B. B.	1944	
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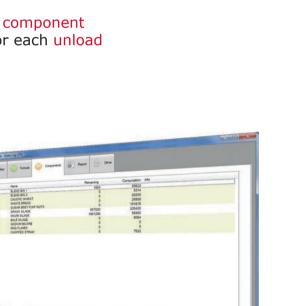
Data Reports

- Report by formula, component or unload box
- Report by date
- Report of load, unload data or both
- Summary or detailed report











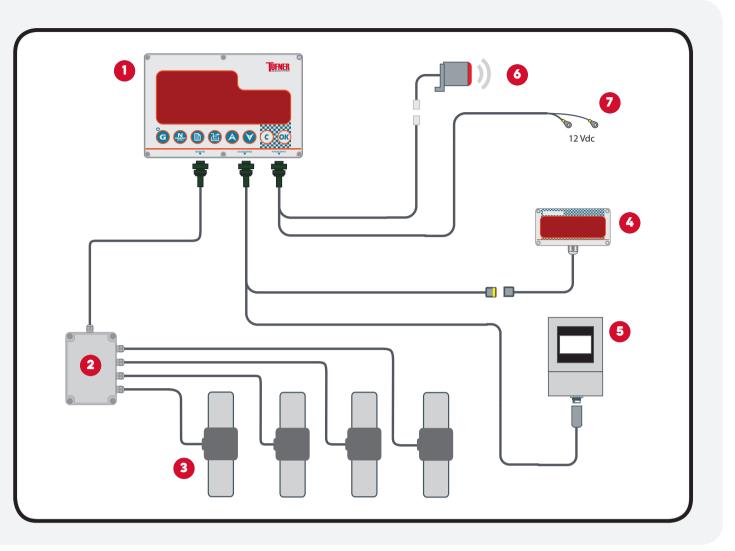
Data Printing

- Reports display
- Reports exportation as spreadsheet (MS Excel[™]) or pdf

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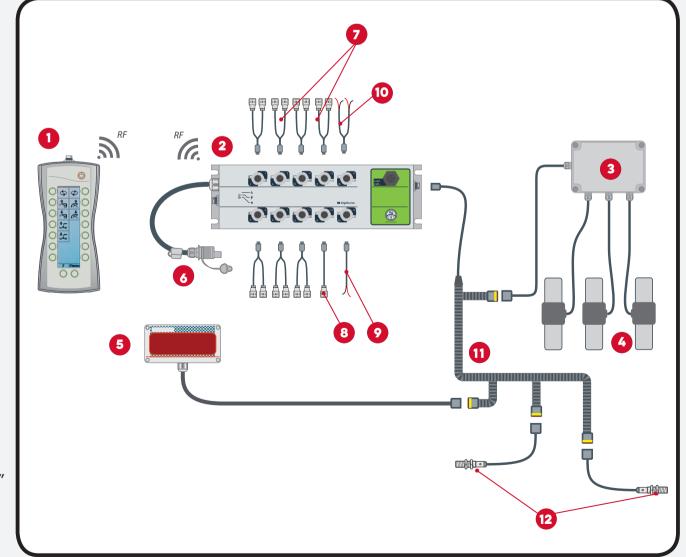
EXAMPLE: WEIGHING AND DOSING

 Weighing & dosing unit FIVE
 Junction box for load cells connection
 Load cells
 Remote display
 Thermal printer
 Siren horn
 Power supply connection



EXAMPLE: WEIGHING, DOSING & VALVES CONTROL

 ICON D Command Unit with radio frequency connection
 HYDRA WT20 Module with integrated weighing electronic and radio frequency connection
 Junction box for load cells connection
 Load Cells
 Remote Display
 Integrated power supply cable with Fuse
 Two-outputs cable for solenoid valves connection
 "Double Current" cable for high absorption solenoid valves



- Single cable for general outputs (lights, beacons, other functions enable, ...)
- Two-outputs cables for general outputs
- BUS enabling in "Automotive Grade" execution
- Digitized Inductive senor (to detect gates open/close)