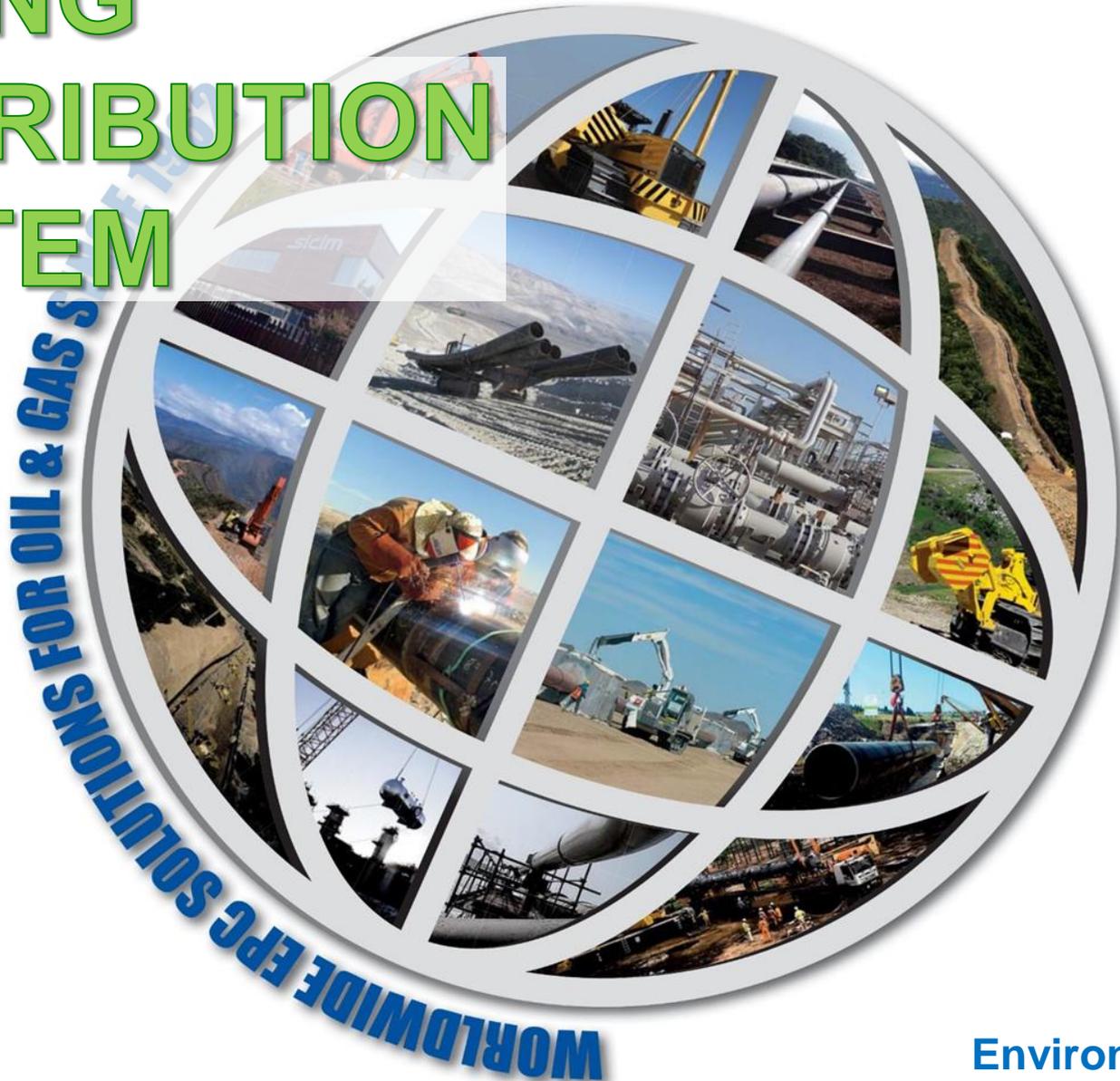


OIL & LUBRICANTS



SAVING DISTRIBUTION SYSTEM



WORLDWIDE EPC SOLUTIONS FOR OIL & GAS

2020 IPLOCA
Environmental Award



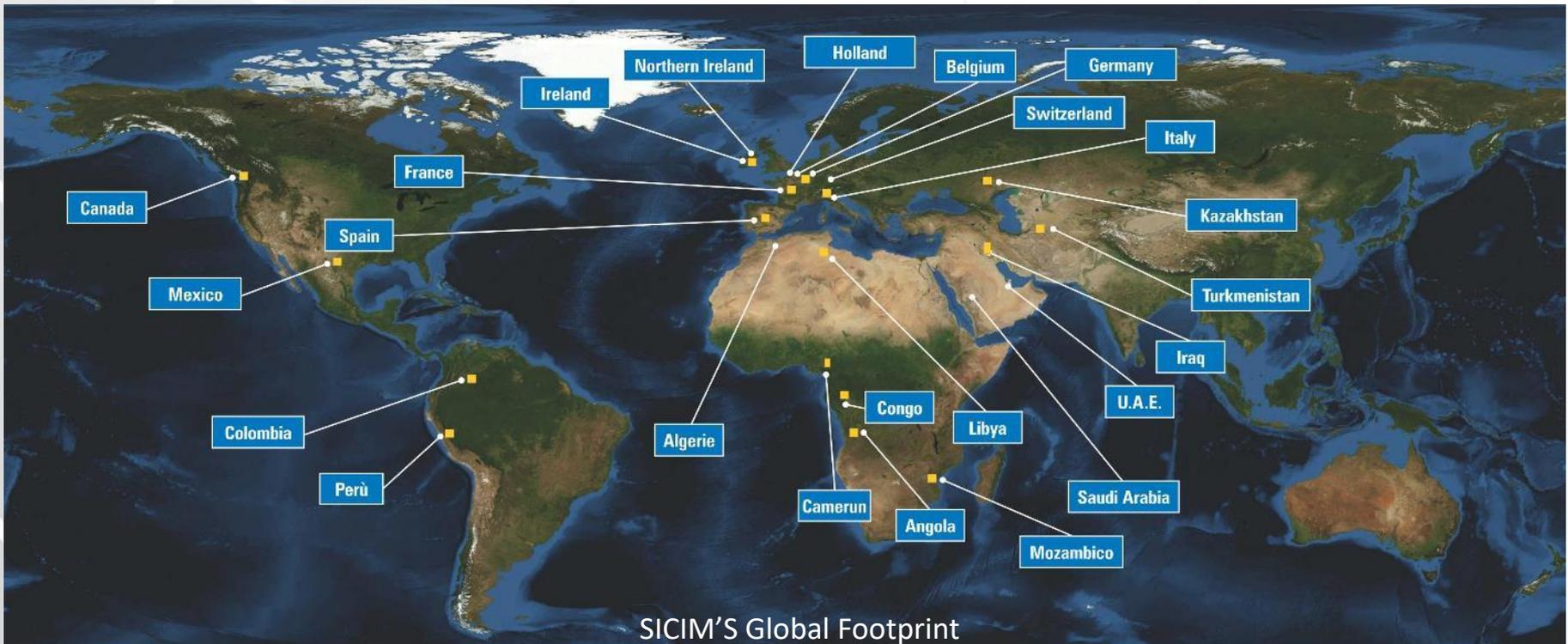
BUSINESS PROFILE

HEAD OFFICE

⇒ BUSSETO (PARMA) – ITALY

DATE OF ESTABLISHMENT

⇒ 22nd January 1962



⇒ 19 Branches/Subsidiaries

■ SICIM offices



58 years of experience

SICIM is a Construction Company established in 1962 and offering all types of services related to the installation of pipelines and relevant ancillary facilities for the transmission and distribution of oil and gas on international basis.

Our past, including the installation of over than **15'000 km** of pipelines and **25'000 tons** of steel in facilities world-wide, is a guarantee of success.

Range of services

- ⇒ Project Management;
- ⇒ Engineering and Procurement for EPC works (approx. 200.000 hrs/year);
- ⇒ Pipelines and Flowlines for oil, gas, petroleum and other industry's products, water, etc., including rehabilitations of existing pipelines;
- ⇒ Oil/gas plants & facilities.

	2015	2016	2017	2018	2019
Manpower	5.077	7.022	7.234	4.827	5.549
Man-Hours	16.789.011	23.413.125	25.803.142	15.783.534	18.789.095





BUSINESS PROFILE

MANAGEMENT SYSTEM CERTIFICATES

intertek
Your Quality Assured.

CERTIFICATE OF REGISTRATION

This is to certify that the management system of:

SICIM S.P.A.
Headquarters: Via Consolato Superiore, 96/98
43011 Busseto, Parma, Italy

has been assessed and registered by Intertek as conforming to the requirements of

ISO 9001:2015

The management systems is applicable to:

management, construction and installation of pipelines and associated facilities for gas and water.

Certificate Number: 045 13121-03
Initial Certification Date: 29 September 2014
Date of Certificate Decision: 11 October 2017
Issuing Date: 11 October 2017
Certificate Expiry Date: 28 September 2020

UKAS
MANAGEMENT SYSTEMS
CERTIFICATION

Authorised Signature:
Cain McIlwain
President, Business Assurance

Intertek Certification Limited
104 Victory Park, Victoria Road
Derby DE24 8ZJ, United Kingdom

Intertek Certification Limited is a UKAS accredited body under schedule 6 of accreditation no. 024.

UKAS

BUREAU VERITAS
Certification

SICIM S.p.A.
Head Office and Operative Site:
Via Consolato Superiore, 99/98 - 43011 BUSSETO (PR) - ITALY

Bureau Veritas Italia spa certifies that the Management System of the above organisation has been certified and found to be in accordance with the requirements of the management system standards detailed below:

Standard

UNI EN ISO 3834-2:2006

Scope of certification

Design, manufacturing and installation by welding of pipelines and related facilities for oil & gas sector

Certification cycle start date: **03rd March 2016**

Subject to the continued satisfactory operation of the organization's Management System, this certificate expires: **13th March 2019**

Original certification date: **15th March 2013**

Certificate N°: IT002013 Rev.3 date: **03rd March 2016**

Authorised Signature:
FRANCESCO SOTTARE
Technical Director

ACCREDITIA

UKAS

Fuller conditions regarding the scope of this certificate and the applicability of the management system requirements may be obtained by contacting the signatories. To check this certificate validity, please refer to the website www.bv.com/veritas

Certificate body address: Bureau Veritas Italia spa - Via Marconi, 15, 20120 Milano, Italy

intertek
Your Quality Assured.

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SICIM S.P.A.
Headquarters: Via Consolato Superiore, 96/98
43011 Busseto, Parma, Italy

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ISO 14001:2015

The management systems is applicable to:

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Headquarters: Via Consolato Superiore, 96/98
43011 Busseto, Parma, Italy

has been assessed and registered by Intertek as conforming to the requirements of

OHSAS 18001:2007

The management systems is applicable to:

management, construction and installation of pipelines and associated plants for gas and water.

Certificate Number: 045 13121-03
Original Certification Date: 29 September 2014
Date of Certificate Decision: 11 October 2017
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FINDINGS

Engine and hydraulic system oil and lubricants change operations in the mechanical workshops on construction sites are part of standard maintenance process for heavy equipment.

For these operations, we normally proceed using: oil drums, pumps, funnels, containment tanks, etc.



STANDARD





FINDINGS

This standard method has several drawbacks:



Risk of environmental hazards during oil drums movement



Cleaning effort to maintain a tidy working environment



Moving and positioning the drums requires to coordinate actions with possible waste of time



Lack of efficiency

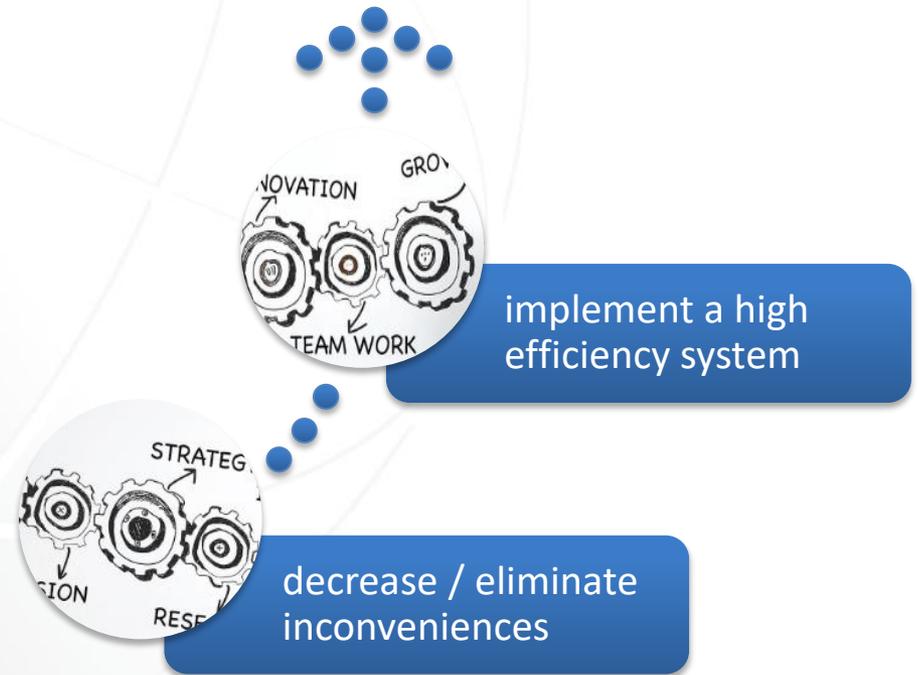




An interesting solution, adopted in one of our project in Mexico, consists in an **OIL & LUBRICANTS DISTRIBUTION SYSTEM**, with the refilling tanks kept on metal supports, in a separate area / room to avoid potential risks.

By means of pumps, the OIL and the LUBRICANTS are then distributed to the different maintenance bay or workstations through a system of pipes.

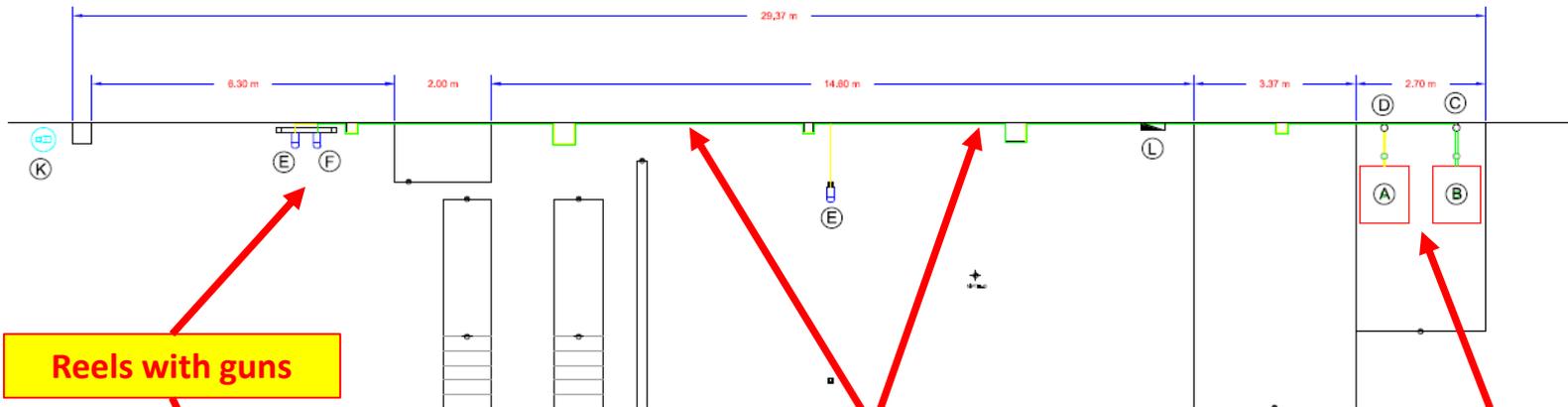
Single service points are equipped with flow meters to monitor and measure the quantity of oil and lubricants used in real time.





Vista en Planta

TALLER DE DESPACHO - SICIM



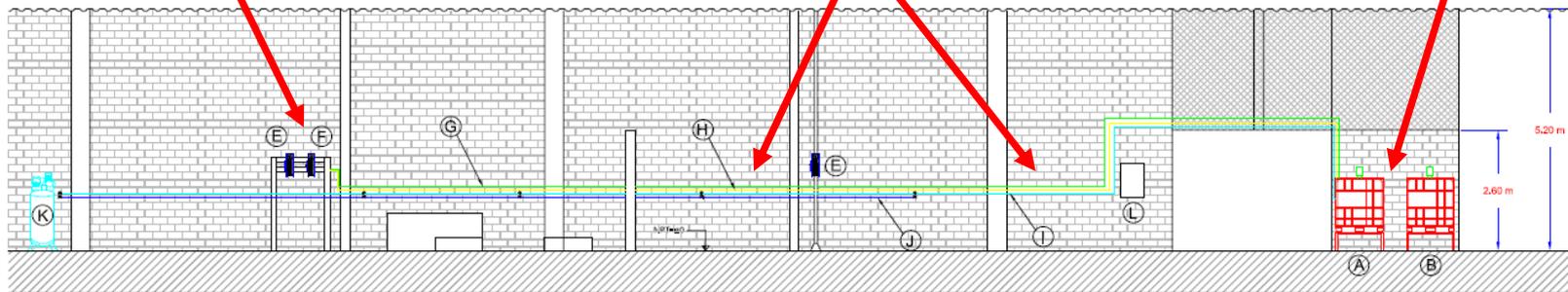
Reels with guns

Oil & lubricants network

Tanks

Vista Frontal

Taller de despacho - SICIM



DESCRIPCIÓN DEL EQUIPO INSTALADO			
A	Deposito de almacenamiento de lubricantes.	F	Reel de cable para cableado.
B	Deposito de almacenamiento de aceites.	G	Reel de cable para cableado.
C	Deposito de almacenamiento de aceites.	H	Reel de cable para cableado.
D	Deposito de almacenamiento de aceites.	I	Reel de cable para cableado.
E	Reel de cable para cableado.	J	Reel de cable para cableado.
F	Reel de cable para cableado.	K	Reel de cable para cableado.
G	Reel de cable para cableado.	L	Reel de cable para cableado.

RELACION	INDICA AREA DEL DETALLE
UR = NIVEL SUPERIOR DE NIVEL	INDICA AREA DEL DETALLE
UL = NIVEL DEL CENTRO BARRA DE LISA	INDICA AREA DEL DETALLE
UC = NIVEL DE CUBIERTO	INDICA AREA DEL DETALLE
UA = NIVEL MEDIO DE QUINCHA	INDICA AREA DEL DETALLE
UB = NIVEL DE SUELO ENLARGADO	INDICA AREA DEL DETALLE
UN = NIVEL DE SUELO	INDICA AREA DEL DETALLE
US = NIVEL DE SUELO DE SUELO	INDICA AREA DEL DETALLE
UL = NIVEL DE SUELO O JARDINERA	INDICA AREA DEL DETALLE
UN = NIVEL DE SUELO NATURAL	INDICA AREA DEL DETALLE
UN = NIVEL DE SUELO	INDICA AREA DEL DETALLE
UN = NIVEL DE SUELO	INDICA AREA DEL DETALLE

CONTENIDO		
ESCALA	ACOTACION	FECHA
1:100	Metros	Septiembre de 2014
DIBUJO	CLIENTE	
Ing. AMB. Arribas	CONSTRUCCIONES SEM SA DE CV	

NO. DE PLANO
BD-01



IMPLEMENTATION

↪ Arrangement of the oil & lubricants tanks area

↪ Construction of supports for tanks and their installation

↪ Installation of the distribution network

↪ Installation of distribution guns (with flow meters)

↪ Internal cleaning and commissioning of the system

↪ System start-up



1



2





IMPLEMENTATION

↪ Arrangement of the oil & lubricants tanks area

↪ Construction of supports for tanks and their installation

↪ Installation of the distribution network

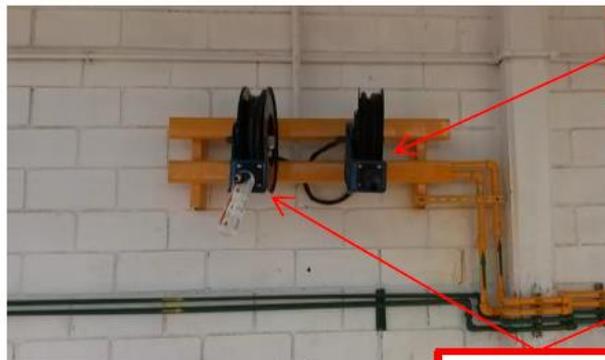
↪ Installation of distribution guns (with flow meters)

↪ Internal cleaning and commissioning of the system

↪ System start-up

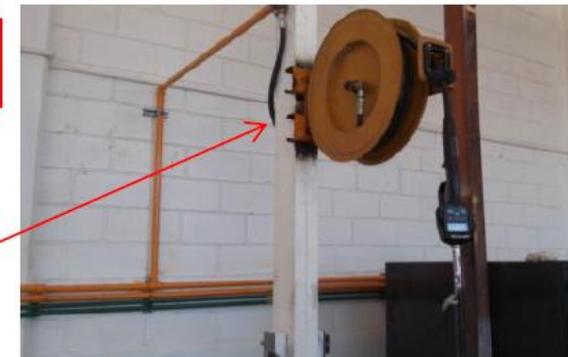


3



10W

15W40



4



IMPLEMENTATION

↪ Arrangement of the oil & lubricants tanks area

↪ Construction of supports for tanks and their installation

↪ Installation of the distribution network

↪ Installation of distribution guns (with flow meters)

↪ Internal cleaning and commissioning of the system

↪ System start-up



5



6



OIL / LUBRICANTS DISTRIBUTION SYSTEM INSTALLED IN MAINTENANCE BAY



Reels with guns

Oil & lubricants network

Tanks



ACHIEVEMENTS

PERFORMANCE IMPROVEMENT AND TECHNICAL ADVANTAGE

- Clean workplaces;
- Lower oils consumption;
- Accurate setting of required oil & lubricants to be erogate;
- Zero manual handling (drum handling);
- No drum carriers;
- Flexible and customizable system for every need and number of workstations / guns

ENVIRONMENTAL IMPACT REDUCTION AND PROTECTED RESOURCES

- Reduction of the impacts due to oil & lubricants spillages;
- Quantity of oil & lubricants contaminated waste to be disposed reduction

SAVINGS AND ECONOMIC ADVANTAGE

- Purchase of minor quantities of oil & lubricants;
- Reduction of machine downtime for oil & lubricants changes and consequent labor costs involved;
- Reduction of environmental restoration costs in case of spillages



ACHIEVEMENTS

SPILL RISK REDUCTION

Oil and lubricants pumps and flow meters

2 reels are installed with a digital gun for dispensing





ENVIRONMENTAL IMPACT MONITORING



Dispensing gun and meter

This meter can be wall mounted in the fluid line or at the pump outlet.

Measurement Units: Meter display is multi-function, showing the volume dispensed per delivery, and has a permanent and a resettable (trip function) totalizer. The display can be programmed to show delivery in liters, quarts, pints and US gallons.

Sleep Mode: The meter automatically shuts down the display after one minute of non-use.



Example of Total for Last Dispense Cycle



Example of Accumulated Total

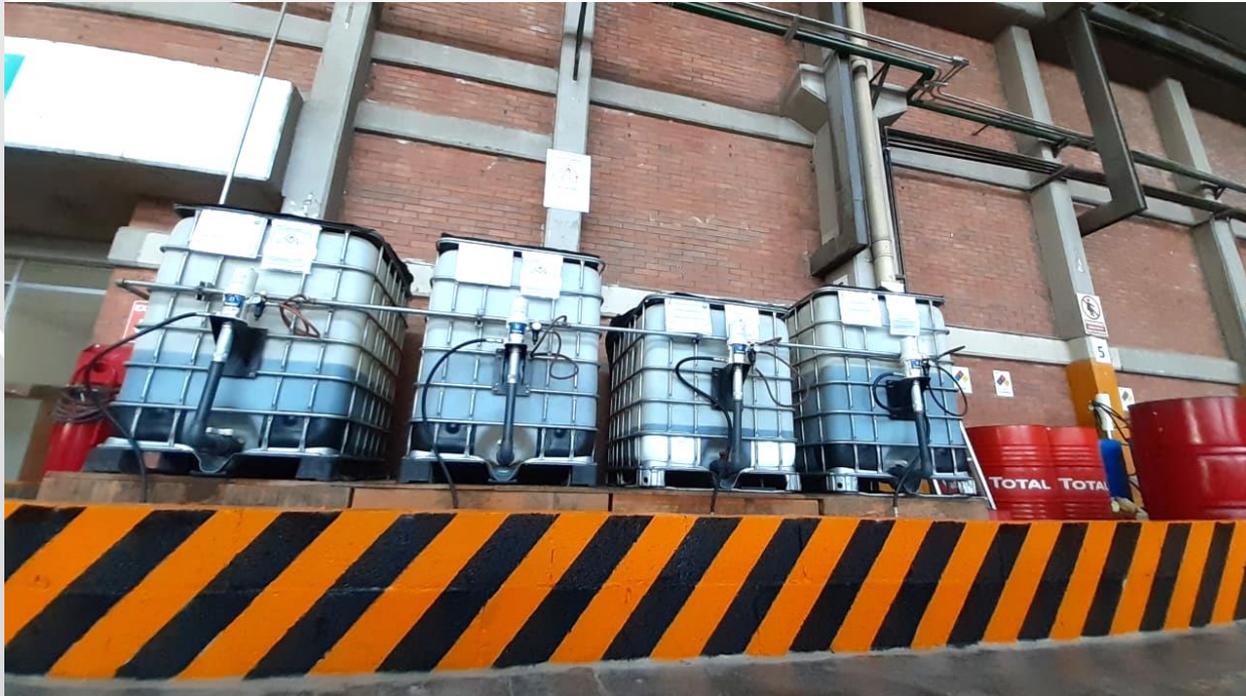


Example of Measurement Units



ACHIEVEMENTS

FLEXIBILITY



System flexible and designed to distribute all type of oils and lubricants normally used (already implemented with 4 separate circuits)



LONG TERM PLANNING

Accidental releases of oils and lubricants from maintenance make up a large number of minor spills and create untidy workplaces.

That's why SICIM has embraced a **proactive approach to oil & lubricants distribution network** in mechanical workshops and premises.

This system allows:

- To know exactly oil & lubricants quantities used for each equipment maintained, optimizing consumption,
- To keep workstations clean,
- To reduce manual handling,
- To avoid leak and spillage during refueling and repairs,
- To save costs and machine downtime.

SICIM is extending this practice to other project sites, ensuring Company **continuous improvement**.





CONTACTS



For additional information
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