

# RANGE 3000

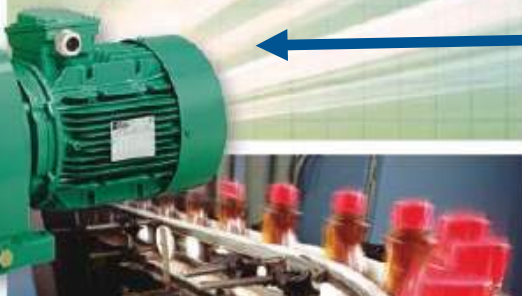


# RANGE 3000



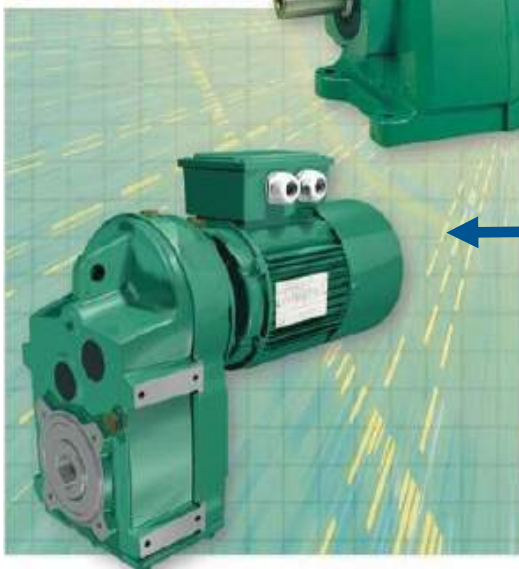
## ORTHOBLOC 3000:

- Helical & Bevel gear
- Right Angle Output



## COMPABLOC 3000:

- Helical Gear
- In Line Output

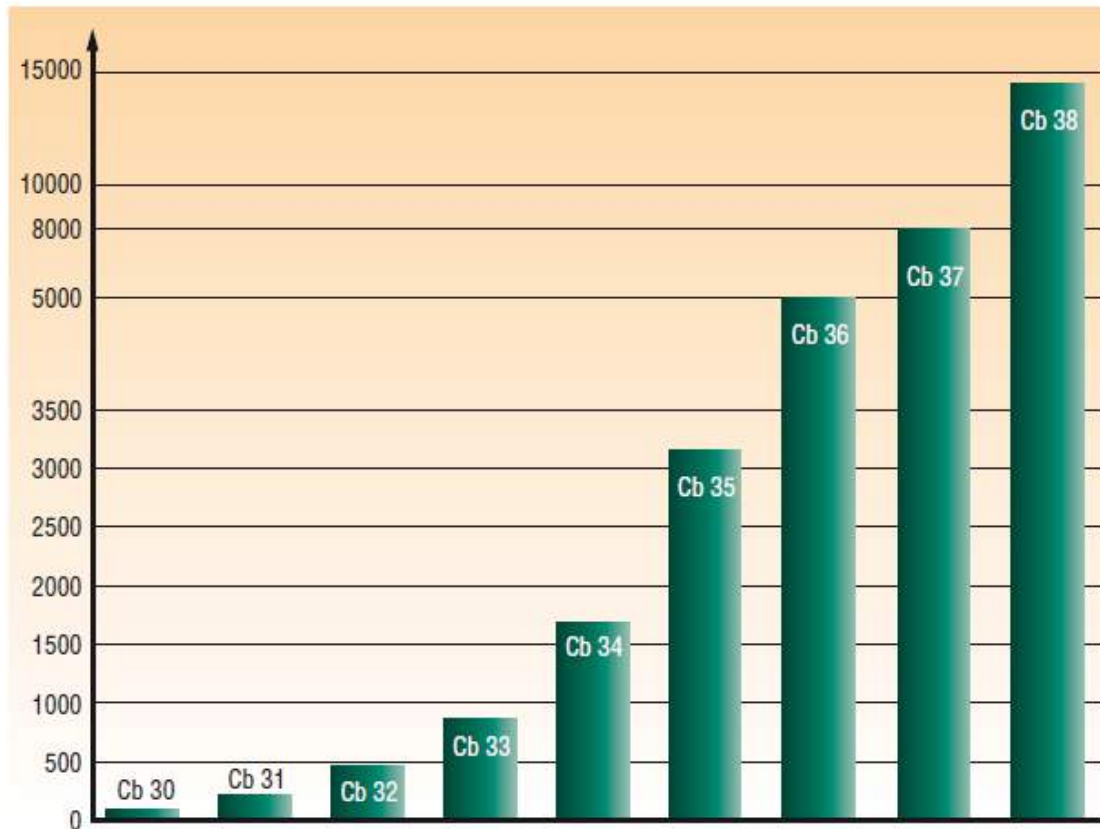


## MANUBLOC 3000:

- Helical gear
- Parallel Output



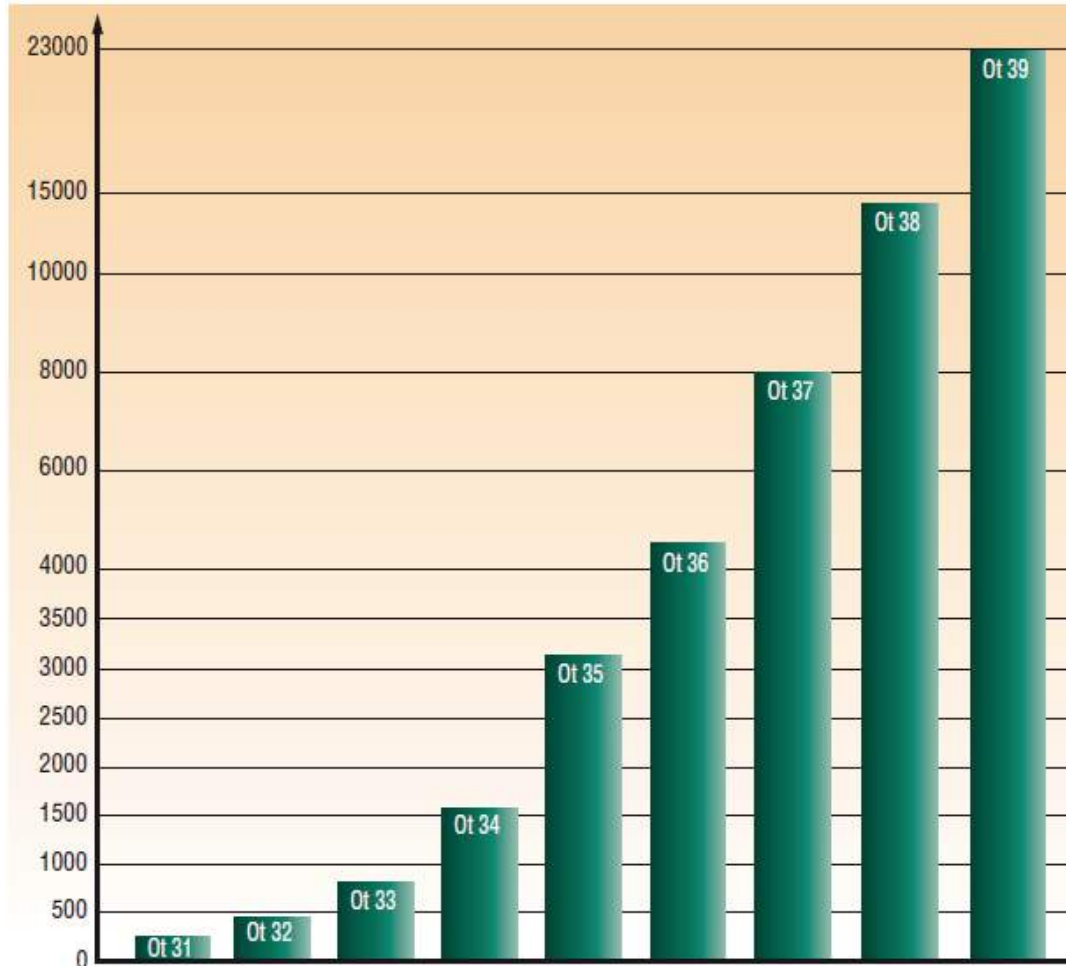
# RANGE COMPABLOC



## RANGE COMPABLOC:

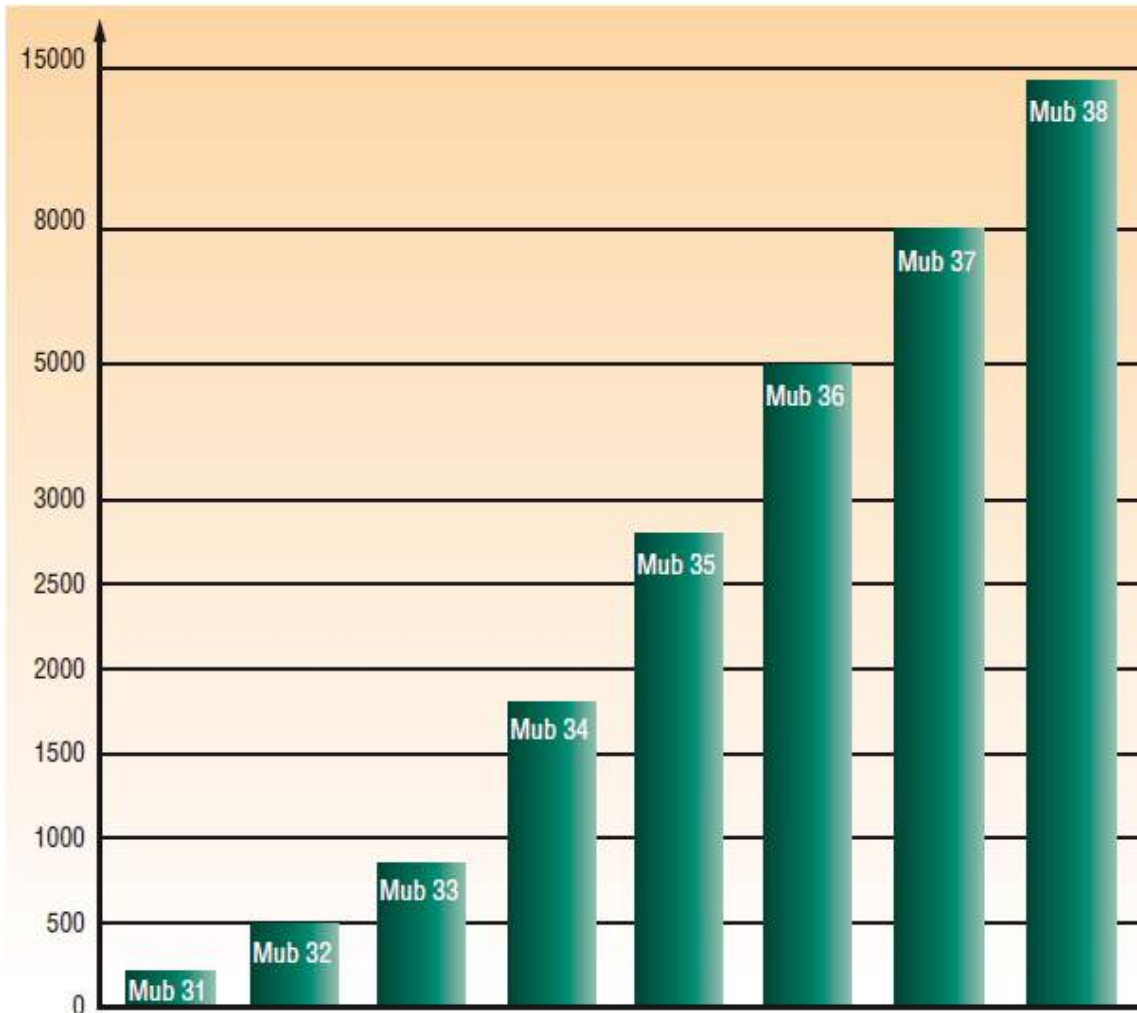
- Helical gear
- In line output
- 9 sizes up to 14500 N.m

# RANGE ORTHOBLOC



- RANGE ORTHOBLOC:**
- Helical Bevel gear
  - Right angle Output
  - 9 sizes up to 23000 N.m

# RANGE MANUBLOC

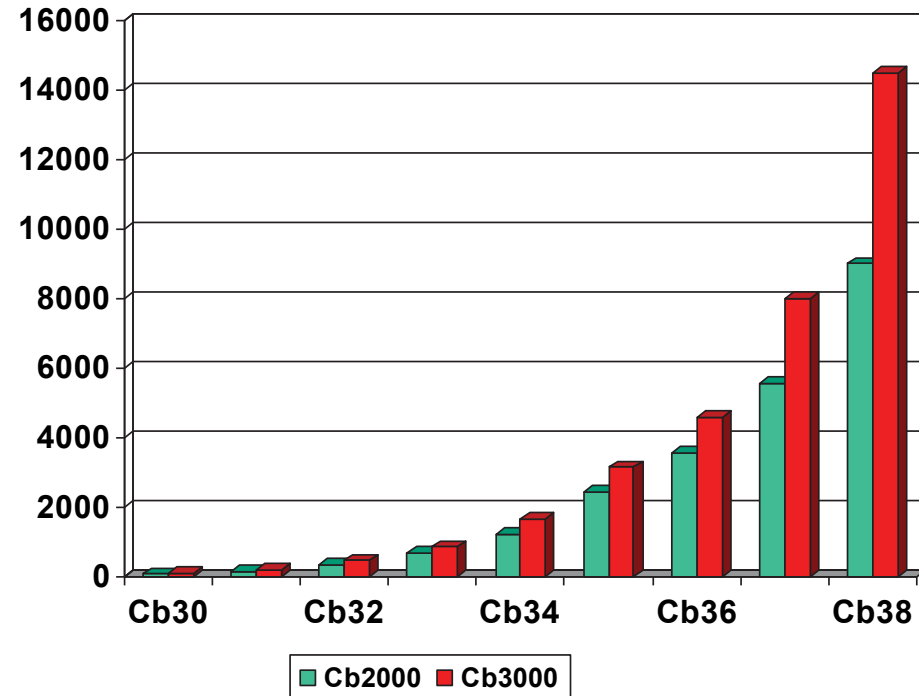
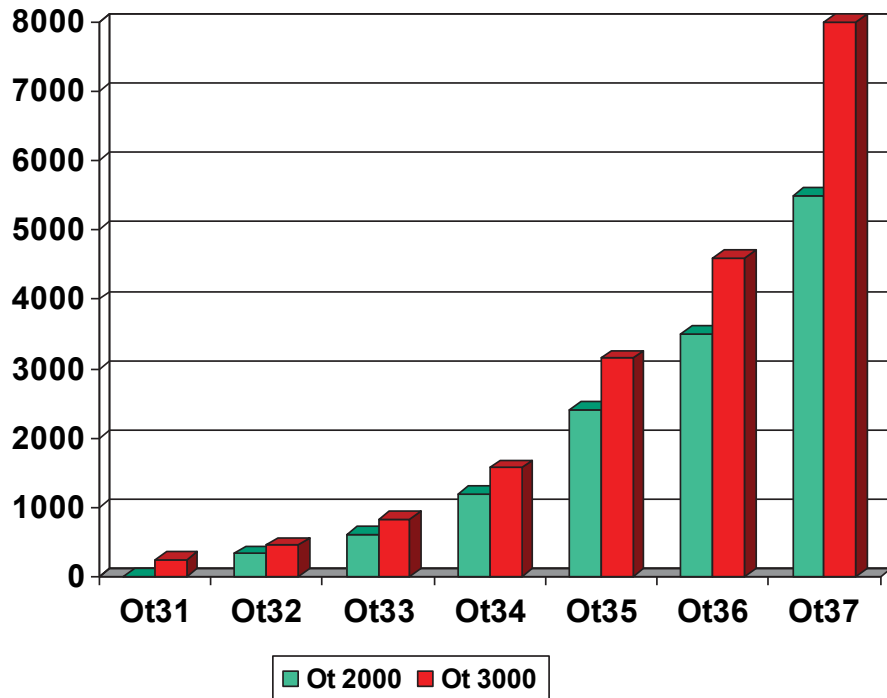


## RANGE MANUBLOC:

- Helical gear
- Parallel Output
- 8 sizes up to 14500 N.m

- Improved PERFORMANCES, in the same size of reducer:
  - Up to 30% of additional torque
  - More robust and higher life time
- Taking into account customers needs on the DESIGN of the products
- INNOVATION with a Backstop in integrated assembly from size 6
- RATIONALIZATION of the range 3000, a unique motor for all sizes and all ratios
- An accentuation of the MODULARITY and the SERVICE offer

## More Output Torque in the same product size



**Increase of life time in equivalent size**

**Gain of 1 size in 30% of the cases**

# AN IMPROVED DESIGN

## Sealing

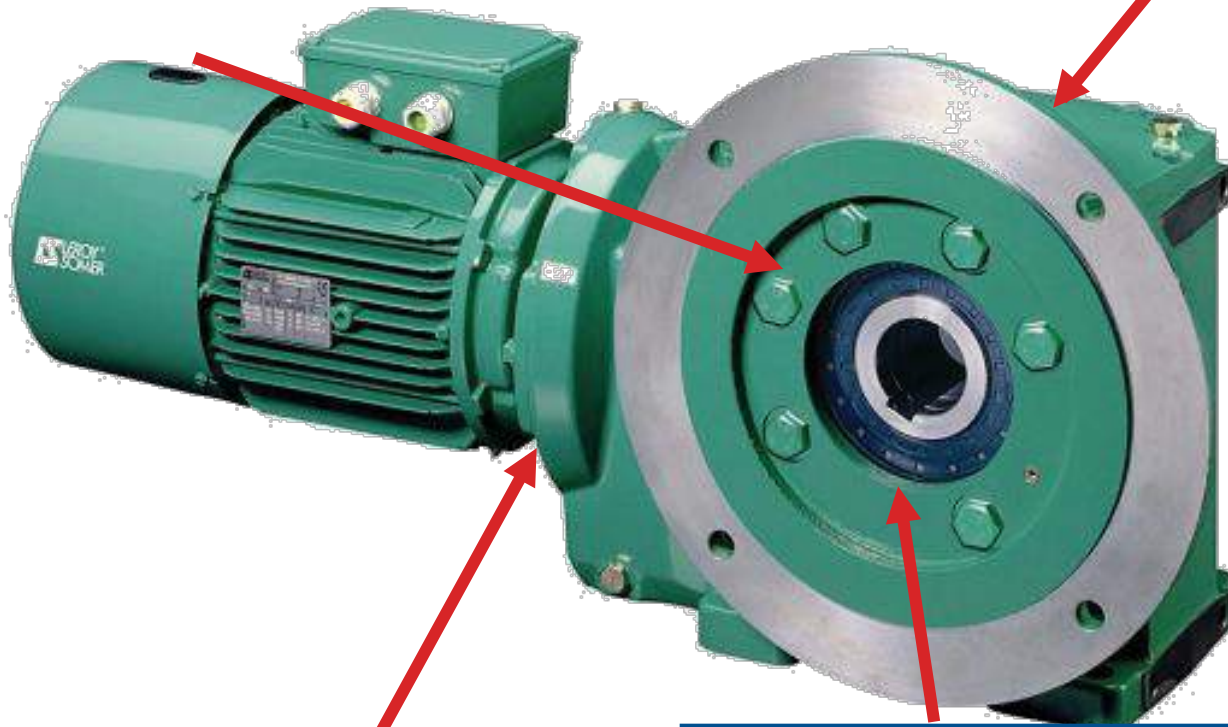
Independent sealing of the output flange

Gasket

Monobloc housing for an improved resistance

O ring seal on motor side

Monobloc Housing and gasket with dustproof lipseal on the output shaft





## **Sealing ... respecting the environment**

- O ring seal on motor side allows the assembly and disassembly without having to rework the sealing
- Multi-position Reducer, with added sealing gasket and additional dustproof lip over the output shaft
- Assembly or replacement of the output flange without touching the sealing
- Breather plug and header tank adapted to the various operating positions

## An integrated backstop in MI, MU and AP

Backstop: the mechanical system allows to lock the operated geared motor in case of load driving

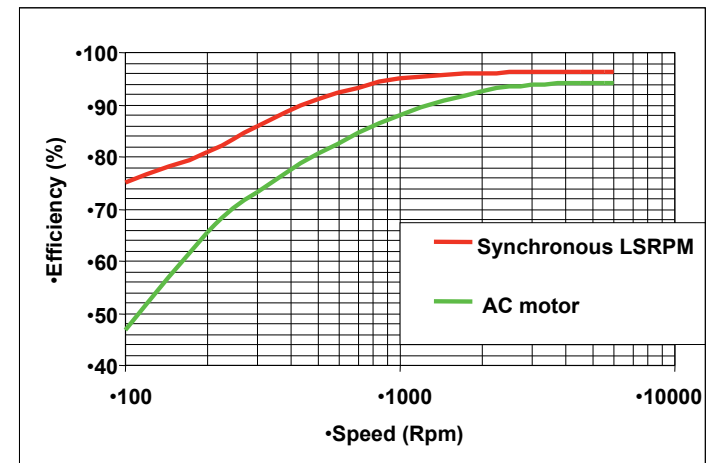
- A solution which is compact, economical and proven.
- Alternative to a brake if the installation needs no higher degree of security.
- An integrated solution in a Standard motor MI3000 → delivery 10 working days up to 45kW



## Energy saving based on the new technologies

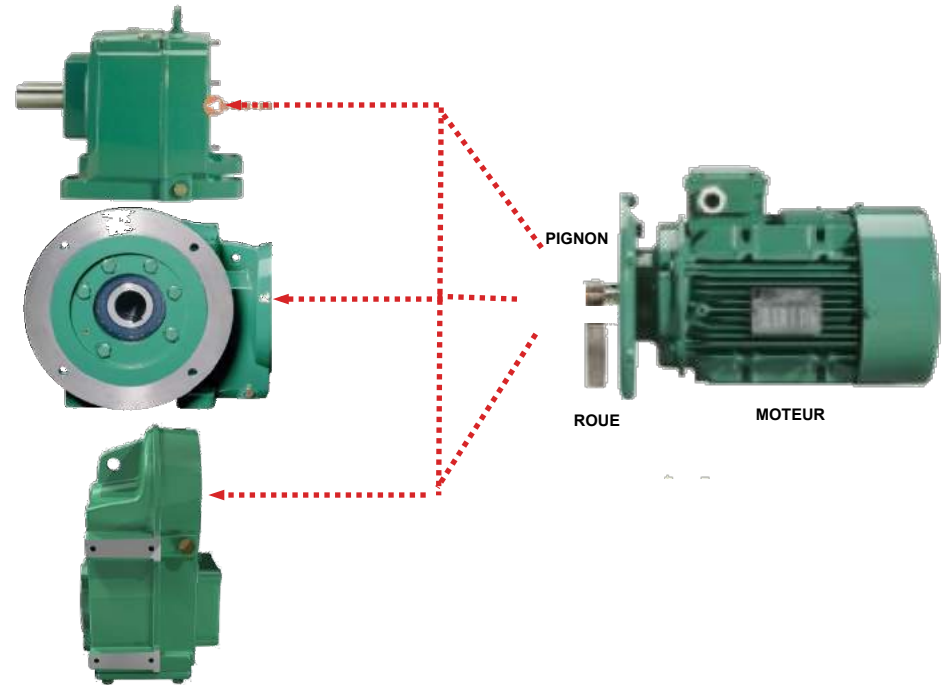
The Dyneo<sup>®</sup> geared motor solution, a low consumption permanent magnet motor and a high efficiency gearbox:

- A light and compact solution (2 to 3 sizes less than a motor of the same power)
- 35 to 40 % energy savings.
- Strong decrease of CO2.
- Return On Investment  $\leq$  18 months.



A concept of the integrated assembly on the 3 ranges:

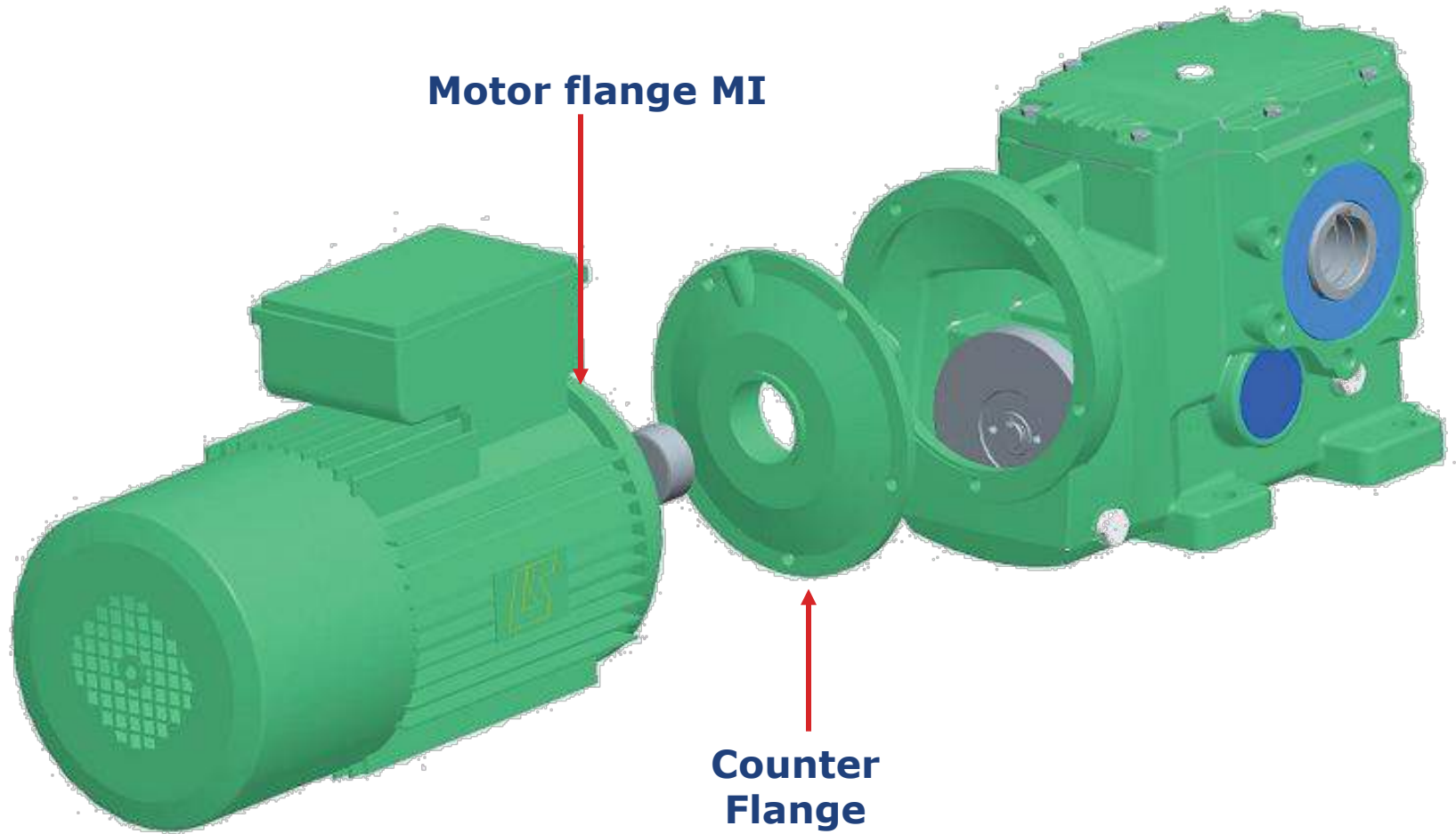
Correspondance Interface MI	Cb	Mub	Ot
	Cb30		
	Cb 31	Mub31	Ot 32 - Ot31
	Cb 32	Mub 32	Ot 33
	Cb 33	Mub 33	Ot 34
	Cb 34	Mub 34	Ot 35
	Cb 35	Mub 35	
	Cb 36-37	Mub 36-37	Ot 36-37-38
	Cb 38	Mub 38	Ot 39



**The integrated assembly of the range 3000: compact and economical**

**Only 1 motor per power on all ratios whatever gearbox technology is.**

# RATIONALIZATION



# SERVICE : MODULARITY



## DRIVES

**Asynchronous**

- VARMECA
- PROXIDRIVE
- UNIDRIVE M
- POWERDRIVE MD2

**Synchron**

- UNIDRIVE M
- DIGITAX ST



## MOTORS

**Asynchronous**  
With or without brake

- GENERAL PURPOSE**
  - LS, LSES FFB non IE, IE2, IE3
  - FLSES FFB IE2, IE3
- ATEX DUST**
  - LSPX
  - LS, LSES FFB non IE, IE2, IE3
- ATEX GAS**
  - FLSD
- VARIABLE SPEED**
  - LSMV

**Synchronous**

- LSRPM (> IE4)
- UNIMOTOR



## ASSEMBLY

Integrated assembly

Assembly of the primary shaft

Universal Mounting assembly



## GEARBOXES

**COMPABLOC**

- Helical gears
- Axial output
- Foot or flange mounting

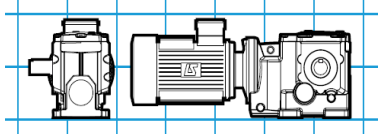
**ORTHOBLOC**

- Helical bevel gears
- Orthogonal output with solid shaft, hollow shaft or hollow shaft with shrink disc
- Foot or flange mounting, or with torque arm

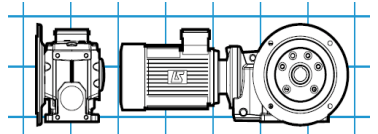
**MANUBLOC**

- Helical gears
- Parallel output with solid shaft, hollow shaft or hollow shaft with shrink disc
- Flange mounting or with torque arm

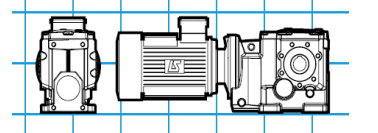
## Variety of mounting options



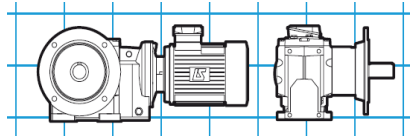
– Foot



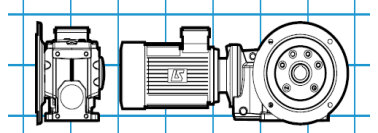
– Flange mounted on different diameters (BS or BD)



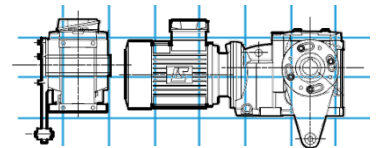
– Face mounted (BT)



– Reinforced flanges depending on the gearbox size (BR)



– Foot and flange

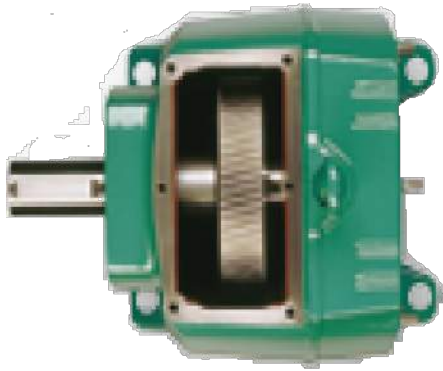


– Torque arm

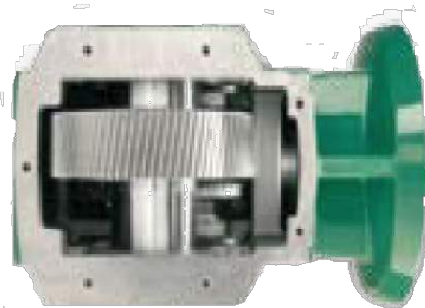
- **Optional finishing** depending on the environment and the site of operation:
  - various colors from the standard RAL 6000 (System Ia)
  - Particular working environment:
    - IIa : moderately corrosive
    - IIb : chemical attack
    - IIIa : corrosive
    - IIIb : significant chemical attack or applications in an neutral environment
    - Ve : applications in an environment with an aggressive atmosphere
  - Different oils: mineral, synthetic, for food industry



## After sales for simplified maintenance



- The access on the top, allows:
  - Quick filling and draining
  - Ease of inspection for preventive maintenance
- Ease of sealing, due to the O ring seal on the motor side and the gasket under the cover
- Output flange can be changed without touching the seal
- After uncoupling the motor, the high speed gear set can be changed without dismantling the gearbox.



## Choice of the delivery time

### AVAILABILITY TIMES EX WORKS (FRANCE), IN WORKING DAYS

Orders received, within the maximum quantity limit, by the factory on day D before 12:00 pm Central European Time, will have the following Availability.

For products with options, availability will be that of the longest lead-time item i.e. the product or its options.

If the order is received after 12:00 pm 1 working day on the mentioned availability will be added.

The maximum quantity is per line of order. Above this maximum quantity, please consult your Sales Office.

D	D+1	D+2	D+5	D+10	Please consult
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IMfinity® IE2 class associated motors 4p

**IE2 class**

230 V  $\Delta$  / 380 V Y / 400 V Y / 415 V Y 50 Hz - 460 V Y 60 Hz  
 380 V  $\Delta$  / 400 V  $\Delta$  / 415 V  $\Delta$  / 690 V Y 50 Hz - 460 V  $\Delta$  60 Hz

4 poles  
1500 min<sup>-1</sup>

Type	IE	Mounting	Rated power 50/60 Hz $P_N$ kW	400 V	Cb 30-	Cb 31- Ot 31- Mub 31-	Cb 32- Ot 32-, 33- Mub 32-	Cb 33- Ot 34- Mub 33-	Cb 34- Ot 35- Mub 34-	Cb 35- - Mub 35-	Cb 36-* Ot 36-* Mub 36-*	Cb 37-* Ot 37-, 38-* Mub 37-*	Cb 38-* - Mub 38-*	Ot 39-
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- *Express availability*: the huge variety of products, options and combinations covers the majority of requirements for different industries and applications.
- RUSH, negotiated before placing an order.
- Preparation of a customer 'specific' delivery chart.

## Worldwide Presence

### Drives and Motors Services Local, continuous, customized support



#### An enhanced global presence that benefits all our customers

Through our integrated organization, we have an extensive global presence that provides comprehensive local support and services. This includes:

- 5,500 employees
- 40+ Automation Centers  
Providing excellent customer support for any product, automation solutions or service requirements
- 23 Manufacturing sites  
Producing a comprehensive range of high quality products, optimized for industry-specific customer requirements
- 8 Engineering and Design facilities  
Develop market leading products and feature-sets using the latest design technology
- 3 Regional dispatch hubs  
For quick delivery of products

Our extensive sales and service network in Europe, Asia Pacific and the Americas are backed-up by hundreds of carefully selected distributors and service partners, often in remote locations, all over the world.

- Audit and consultancy
- Standard installation audits by an industry expert
- Optimized energy savings and return on investment
- System customization and upgrading
- Installation and commissioning
- Full training
- Maintenance
- Installations and resources throughout the world



Note that several countries have more than one of the facilities represented by the icons. Services are optimized independently for each country. Please contact your local representative for more details of our offer in your country.

## *470 distributors and service centers worldwide*

- Dedicated specialists in driving systems and in the production of energy
- Technical assistance in the definition of the products
- International logistic
- Balance sheet and consultancy on energy savings
- Improvement of the process
- Preventive maintenance and predictive
- Work on site or in a work shop



# ***ANNEX***

## An integrated backstop in the integrated assembly

454.5

COUPE A-A  
VOIR DETAIL A

6310

TRA 088 AD 050

PUS 144 BX 001

JOI 295 TB 000

PDC 016 AC 113

0007

JOI 109 TB 000

PDC 082 AC 101

JOI 050 BL 001

0106

0304

0096

0301

0305

0097

0183

VIS 016 EY 002

0184

PMO 030 PU 021

ARR 014 LD 005

BA H32 suivant plan 292109®

COUPE C-C

0150

0287

RLT 050 CP 001

DETAIL A  
ECHELLE 2,000

0254

QUI 024 BU 001

0222

VIS 006 HF 011

0160

ARR 050 CE 001

ARR 050 CE 001

0149

COUPE B-B

VIS 010 VS 025

0179

JOI 010 BS 001

0181

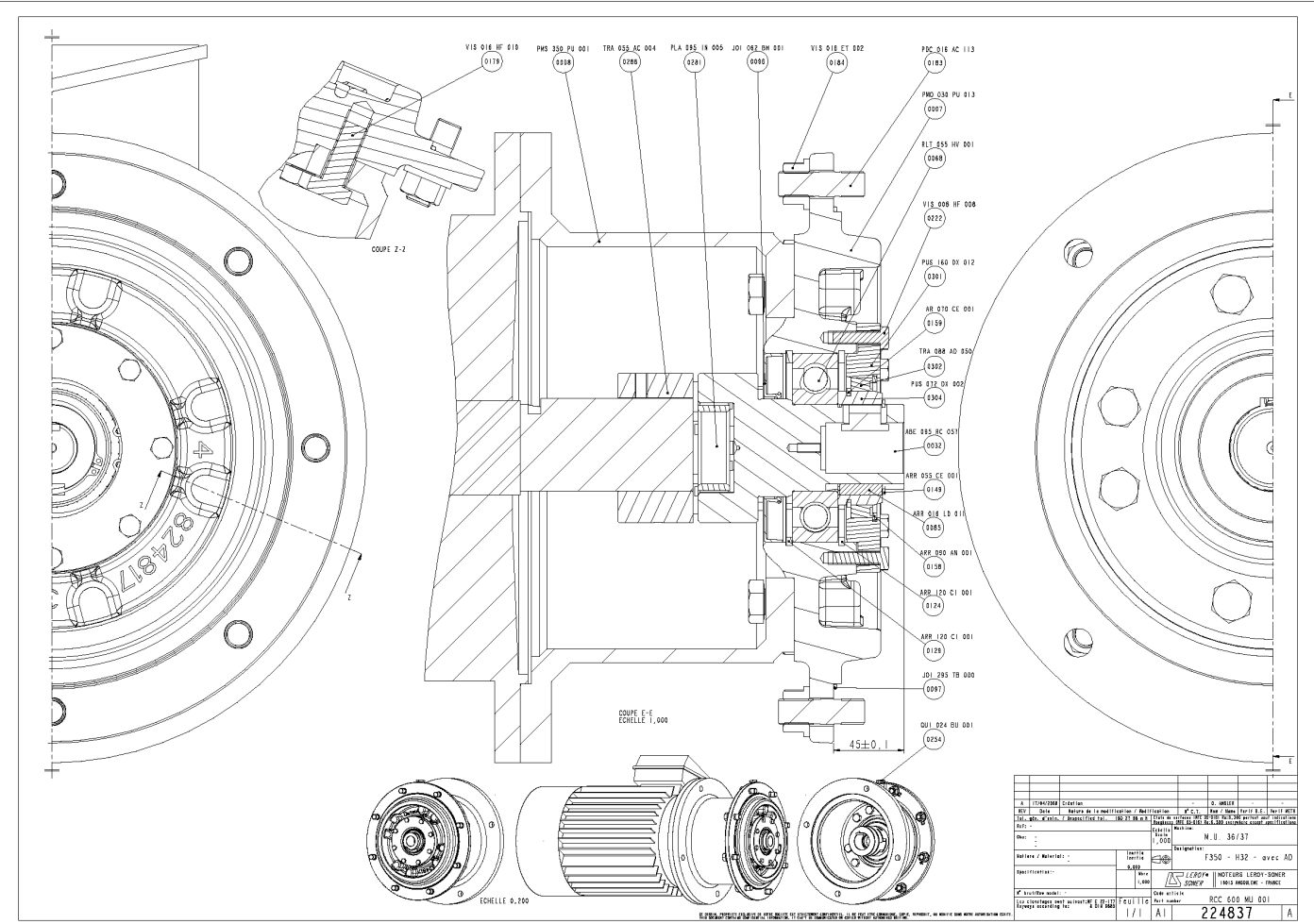
0225

ECHELLE 0,150

REV		15.07.2008		Mise à jour				O. Anselier	
Mat		Date		Matière de la modification / Modification		N° C.T.		Nom / Name	
Tel.		gés. d'usin.		/ Unspecified tol.		ISO 27 48 m K		Etais de surface IWF 05-010	
Ref:								Kw: 8,300	
Ouv:								Machine: MI 36/37	
Matière / Material:								Designation: M1 moteur 180 avec AD	
Specification:								LEROY SOMER	
N° brut/Rev Model: -								MOTEURS LEROY-SOMER	
Les closetages sont suivant: NF E 22-177								16015 ANGOULEME - FRANCE	
Keyways according to: & DIN 6505								Code article	
								Part number	
								RCC 600 BA 005	
								292015	

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## An integrated Backstop in the universal mounting assembly



## An integrated backstop in the primary shaft

