- **GROUPS WITH MINIMUM SIZED INTEGRAL SUPPORTS (without dust protection) for bidirectional movements with single drive.**
- **Use with single screw or two screws in parallel with common drive. Trapezoidal screw with length 200 times its diameter.**

– **COMPACT SIMPLE BIDIRECTIONAL "B" (in bronze) art. C/DBABC+LB2...R/L - Groups in bronze with two fixed and two mobile supports plus central support.**
– **COMPACT SIMPLE BIDIRECTIONAL "N" (in nylon) art. C/DNABC+LN2...R/L - Groups in nylon with two fixed and two mobile supports plus central support.**
– **COMPACT SIMPLE BIDIRECTIONAL "S" (in steel) art. C/DSABC+LS2... R/L - Groups in steel with two fixed and two mobile supports plus central support.**

Model comprised of load bearing support + support/nut + screw tensioning support + central support and TR Dx/Sx screw

The *Compact Simple Bidirectional* Groups occupy less space and are the most economical of the *Compact* series and are produced in three different materials in order to satisfy multiple technical requirements for mechanical linear transmission. We recommend the *Compact Simple Bidirectional* series for horizontal movements of light to medium loads **where it is necessary to distance and near the mobile parts from each other using a single drive to the Dx/Sx threaded screw.**
The *Compact Simple Bidirectional* mechanical groups that we have designed are comprised of modular load bearing supports made respectively in the following materials, "B" in bronze, "N" in nylon and "S" in steel that when combined the Dx/Sx trapezoidal threaded screw by means of the support/nut (also produced of the same materials) form Manoeuvring Groups, each complete with its own technical characteristics that we will now describe:

– **The *Compact Simple Bidirectional "B"* group art. C/DBABC+LB2...R/L** is certainly very practical and economical, ideal for horizontal **bidirectional movements, of light and medium loads, using a single drive** with medium/long screw and is the best of the "*Simple Bidirectional*" category in that being completely made in bronze it allows a **double load capacity** in respect to the maximum vertical loads shown in tables CL.3 and CL.4 on pages 121 and 123, proportioned for horizontal use by making the following approximate calculation:
The Kg shown in the table for vertical use multiplied by 2 and then by 4 (or else directly by 8), corresponds to the load moveable horizontally by the Compact Simple "B" and also manually by Compact Simple "S".

– **The *Compact Simple Bidirectional "N"* group art. C/DNABC+LN2...R/L** is also very practical and economical, ideal for horizontal **bidirectional movements, of light loads** with medium/long screw, made in nylon allowing faster movement speeds but with a notably lighter load capacity compared to the *Simple Bidirectional "B" e "S"* loads shown in tables CL.3 and CL.4 on pages 121 and 123, proportioned for horizontal use by making the following approximate calculation:
The Kg shown in the table for vertical use multiplied by 4, corresponds to the load moveable horizontally by the Compact Simple "N".

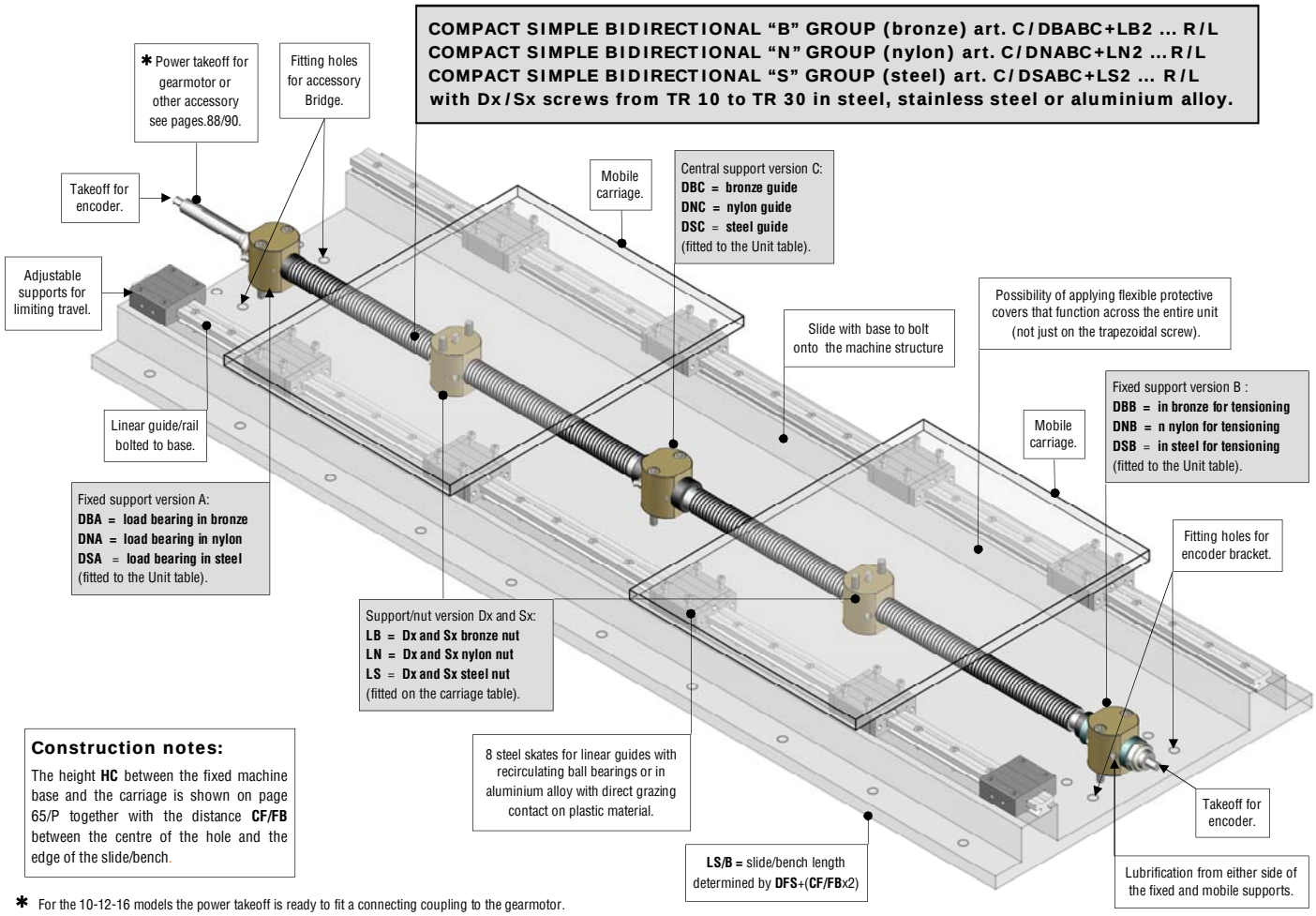
– **The *Compact Simple Bidirectional "S"* group art. C/DSABC+LS2...R/L** is certainly the most economical of the series, with use restricted for horizontal **manual bidirectional positioning movements of light loads** with medium/long screw, made completely in steel and also corresponding to the loads shown in tables CL.3 and CL.4 on pages 121 and 123, proportioned for horizontal use by using the same approximate calculation as for *Bidirectional "B" and Bidirectional "S"* but, as preciously stated, the latter is only for manual movements.

All of the *Compact Simple Bidirectional* groups may be purchased pre-assembled, with the Supports inserted on the trapezoidal screw, so that that no dismantling is required when mounting on the Manoeuvring Unit as shown in the diagram on page 65/R.

For phase adjustment of the two mobile carriages it is necessary that one carriage is fitted with a double base, one with oblong holes to enable adjustment equal to the pitch of the screw. Alternatively a stop ring ABA can be fitted and washers inserted between the support and stop ring to sync both carriages.

Our groups are ready for the fitting of accessories on page 265 such as **gearmotors (see page 65/O), handwheels, position indicators** and others and are available from us, pre-selected according to the machined screw terminal and pre-fitted together with the supports that form the group itself.

- **Indicative diagram of Manoeuvring Unit using a "Compact Simple Bidirectional B" with medium/long trapezoidal screw.**



* For the 10-12-16 models the power takeoff is ready to fit a connecting coupling to the gearmotor.

Groups ready to fit accessories on page 265 - For correct use of the groups please see the technical instructions on pages 65/C - 65/D.

- **TRAPEZOIDAL SCREW MANOEUVRING GROUP mod. COMPACT SIMPLE BIDIRECTIONAL "B" (bronze) - art.C/DBABC+LB2 ... R/L series 10/30**
- **Trapezoidal Dx/Sx screw with maximum length of 200 times its diameter, with bronze fixed supports + bronze supports/nuts & accessories.**

GROUP COMPOSITION WITH THE RELATIVE SUPPORTS:

– **Dx/Sx Trapezoidal screw** (type and length to be determined).
– **art.DBC** Bronze central support.
– ◊ **art.DBA** Bronze fixed support.
– **art.LB** Bronze Dx support/nut.
– **art.LB** Bronze Sx support/nut.
– **art.DBB** Bronze fixed support.

Diagram for fitting the group on the slide on page 65/R.

- **TRAPEZOIDAL SCREW MANOEUVRING GROUP mod. COMPACT SIMPLE BIDIRECTIONAL "N" (nylon) - art.C/DNABC+LN2 ... R/L series 10/30**
- **Trapezoidal Dx/Sx screw with maximum length of 200 times its diameter, with nylon fixed supports + nylon supports/nuts & accessories.**

GROUP COMPOSITION WITH THE RELATIVE SUPPORTS:

– **Dx/Sx Trapezoidal screw** (type and length to be determined).
– **art.DNC** Nylon central support.
– ◊ **art.DNA** Nylon fixed support.
– **art.LN N**ylon Dx support/nut.
– **art.LN N**ylon Sx support/nut.
– **art.DNB** Nylon fixed support.

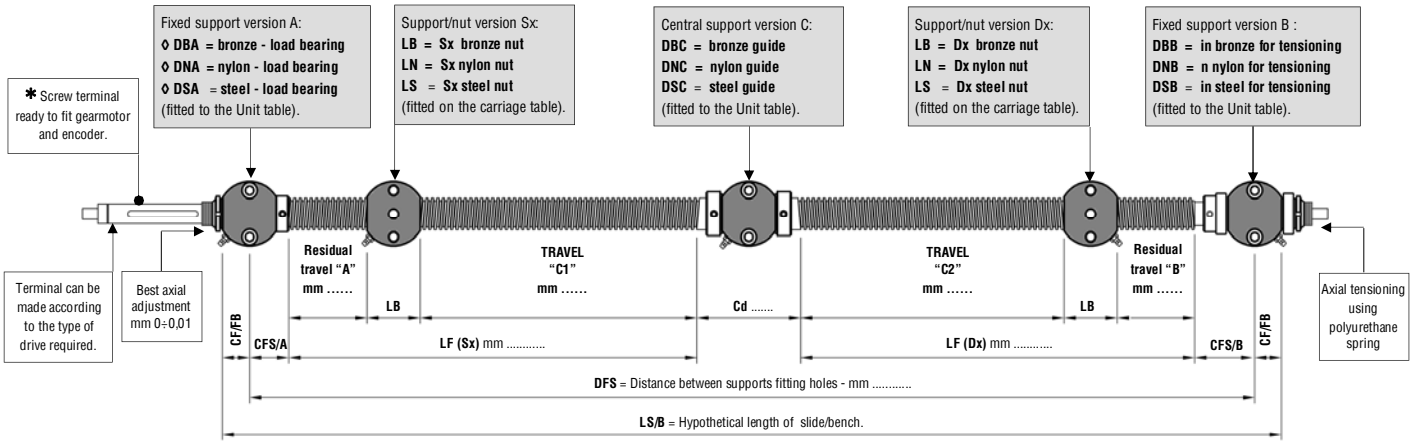
Diagram for fitting the group on the slide on page 65/R.

- **GRUPPO DI MANOVRA A VITE TRAPEZIA mod. COMPACT SIMPLE BIDIRECTIONAL "S" (acciaio) - art.C/DSABC+LS2 ... R/L serie 10/30**
- **Trapezoidal Dx/Sx screw with maximum length of 200 times its diameter, with steel fixed supports + steel supports/nuts & accessories.**

GROUP COMPOSITION WITH THE RELATIVE SUPPORTS:

– **Dx/Sx Trapezoidal screw** (type and length to be determined).
– **art.DSC** Steel central support.
– ◊ **art.DSA** Steel fixed support.
– **art.LS** Steel Dx support/nut.
– **art.LS** Steel Sx support/nut.
– **art.DSB** Steel fixed support.

Diagram for fitting the group on the slide on page 65/R.

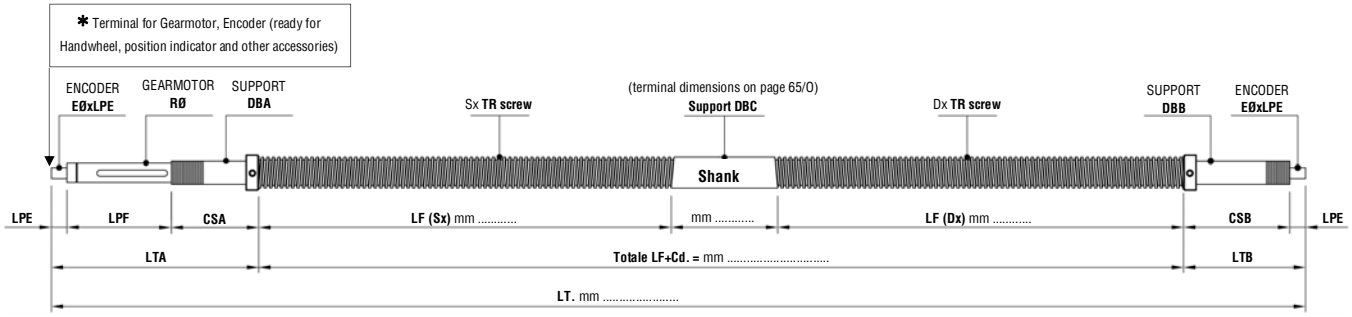


LENGTH = LB(x2) on page 65/M - **CFS/A - CFS/B** on page 65/O - **CF/FB**(x2) on page 65/P (normally the length **LB** is substituted with the length of the entire carriage)

Upon request the Compact Simple Bidirectional "B" Manoeuvring Group (in bronze) when used with a stainless steel trapezoidal screw and the Compact Simple "N" Group (in nylon) when used with an anodized aluminium alloy or stainless steel trapezoidal screw, can also be supplied with stainless components.

◊ For the 10-12-16 models the DBA-DNA-DSA support is replaced with support DBB-DNB-DSB accessorised with stop ring and load bearing ring.

- **TRAPEZOIDAL SCREW DESIGN of our threaded bar ready for the above supports, gearmotor (positioned at the side) and encoder. Trapezoidal screw terminal: for specific details please see page 65/O or for general information pages 48 - 56**



* For the 10-12-16 models the power takeoff is ready to fit a connecting coupling to the gearmotor.

– **For sizing the Manoeuvring Group screw and consequent gearmotor, consult (after having read the explanations on page 65/I) tables CL3/CL4 from pages 120 – 123 and then compile this page indicating the distances "Travel A – Travel B – Travel C" together with the questionnaire that can be found on pages 64-65.**
– **Please then send everything to our technical department for optimizing. For the dimensions of single supports and spare parts please see the following pages.**

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