MEGASPACE by skovsgaard,

Supports high end practise performance,
Save 1 hour a day. Pay back time within a few weeks.

THE ULTIMATIVE WORKSTATION - AS IMPORTANT AS THE UNIT

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MORE SPACE ON LESS PLACE.
2.3 M2 STORAGE AREA

NEW STANDARD FOR BEST PRACTISE.
A light, elegant and very functional workstation.

MEGASPACE IMPROVES YOUR PERFORMANCE CONSIDERABLY BECAUSE IT SUPPORTS HIGH END ASSISTANCE

“Everything” is within immediate reach for the assistant and even for unplanned treatments does she not need to leave her position close to the patient.

MEGASPACE establishes a new standard for practise-performance-and a challenge for you as dentist and for you as assistant to understand learn and perform the new performance in your dental practise.

In following pages you will find

MEGASPACE CONCEPT DESCRIPTION
MEGASPACE INSTALLATION DESCRIPTION
MEGASPACE BUYER GUIDE
MEGASPACE TRAINING PROGRAMS

MEGASPACE by skovsgaard. Measures: Width 100 cm, depth 76 cm.
Patient chair placed 25 cm to dentist side and 25 cm in front of the tabletop corner by the hand instrument tray.
A module for instrument trays (shown above) or a wash element can be added at the assistant side.

THE MEGASPACE by skovsgaard WORKSTATION IS AS IMPORTANT AS THE UNIT AND PATIENT CHAIR FOR QUALITY AND PERFORMANCE OF ASSISTANT AND DENTIST.

MEGASPACE is the 4. th generation of workstations designed and developed by Herluf Skovgaard, dentist and lecturer, Denmark. It is a result of his concept for courses and lectures in ergonomics.
MEGASPACE.
A stand alone workstation
NEW STANDARD FOR BEST PRACTISE AND BEST ASSISTANCE.
A light, elegant and very functional workstation
MEGASPACE is only 100 cm wide, 76 cm deep but contains as much as 3—4 average drawermodules. Acces area while assistant is in workposition 0,5 m² and with drawers fully open - total storage area 2,3 m².

TEN FULLFILLED REQUIREMENTS FOR THE WORKSTATION FOR ASSISTANCE—and for dentist.
1. Preparations for all treatments (excpet of surgery) can be made with out leaving the workstation
2. LARGE WORKTABLE in two levels for the assistant as well as for the dentist. The assistant has everything within reach and can therefore stay close to the patient
3. The “MOST IMPORTANT DRAWER IN YOUR PRACTISE” is always “ready for action” containing 100 small materials easy to pick up even during a treatment. Storage includes ex “all materials for composite” The drawer can be opened also when the worktable beneath is used for materials and instruments This drawer is used very often.
4. LARGE MATERIALTRAYS 30 x 45 cm replaces tubs and are used for storage of materials for treatment where many materials are needed, like endodontics and crown and bridgeprocedures. Storage of the large materialtrayes in a drawer and workposition on upper worktable. TAKE THE LARGE MATERIALTRAY out of a drawer, PLACE on upper tabletop and you are READY for treatment.

NO TUBS. The most important drawer and the large materialtray replaces the much smaller tubs used in some practises.
5. Assistant can reach “everything” without leaving the patient. The assistant can prepare treatments without leaving the patient.
6. Handinstrumenttable is integrated in the classic position for HIGH END ASSISTANCE, where assistant transfers instruments and materials to dentist. (Training plan is proposed)
7. Integrated computerworkplace for the assistant as well as for the dentist.
8. DUO, DUO/SOLO and SOLO functions are all possible
9. Dentist has his/her own workplace at his/her side of MEGASPACE.
10. MEGASPACE provides perfect interaction between storage, preparations to treatments, functions during assistance, as well as organisation and work methods.

TWO DEMANDS ARE RELATED TO THE UNIT:
1. Assistant must have access to uninkstruments placed between dentist and assistant, over the patient. Multifunction syringe closest to the assistant.
2. Suctiontube holder left to assistant, very close to multifunction syringe

DENTISTS WORKPOSITION.
THE DENTIST HAS A LOT OF SPACE IN ALL POSITIONS
Dentist can work in all clock positions 9, 10, 11, 12.
Dentist has a worktable in 2 levels.
Dentist can take handinstruments with solo left to right hand technique.
Solo work is possible.

Dentist has keyboard and computerscreen best when turned towards him/her
Assistant picks up materials in MOST IMPORTANT DRAWER by a tweezer slooping down.

Assistant has access to exterior 15 cm of lower drawers during a treatment.

Dentist can reach materials etc in his part of the MOST IMPORTANT DRAWER.

Dentist can reach instruments etc in his part of the drawer, even opened 60 cm.
ENDODONTIC TREATMENT IS PREPARED.

LARGE MATERIALTRAY FOR ENDODONTICS IS TAKEN FROM A DRAWER AND PLACED OF UPPER TABLE.

Endo-instrumentcasette on handinstrumenttable

The preparation is very fast to do. Everything is within reach.

CROWN/BRIDGE TREATMENT IS PREPARED.

MATERIALTRAY FOR CROWN/BRIDGE TREATMENT IS TAKEN FROM A DRAWER AND PLACED OF UPPER TABLE.

The preparation is very fast to do. On lower level, pistols, temporary crowns etc.

COMPUTERSCREEN, MOUSE AND PULL-OUT KEYBOARD FOR ASSISTANT.

COMPUTERSCREEN, MOUSE AND KEYBOARD FOR DENTIST.

The dentists computerscreen is proposed to be directed towards the dentist (not shown here).
1/2 m² worktabletop at assistant side.,
HANDINSTRUMENTTABLE on a double articulated armsystem.

Assistant passes instruments to the hand of the dentist using classical instrumenttransfer.
THE MOST IMPORTANT DRAWER IN PRACTISE. Room dividers of different size for small materials used very frequent are placed in the drawer. Materials are taken with a tweezer from above.

Handinstruments are stored in lower drawers either in sterile bags placed in aluminum cassettes—or in an open instrument holder, Handinstrument cassettes may too be stored in a drawer. Everytime one is used it is replaced by a new.

MATERIALTRAY FOR ENDODONTICS at left. The material tray is placed at workposition on upper tabletop.

MATERIALTRAY FOR CROWN/BRIDGE PROCEDURES at left. The material tray is placed at workposition on upper tabletop.
MATERIALS AND INSTRUMENTS ARE ORGANIZED ACCORDING TO A MATRIXSYSTEM.

This organisation is important in order to achieve best outcome of the use of MEGASPACE.

WHAT ASSISTANT CAN REACH
Materials (and in lower drawers also instruments) most often used are placed where they are fastest for the assistant to pick up DURING a treatment. This is marked with red, ASS 1 (for “Assistants 1. priority” – etc)
Less frequent used materials (and instruments) are placed in the orange field ASS 2
Seldom used materials (and instruments) are placed in the light orange field ASS 1

WHAT DENTIST CAN REACH.
The dentist can reach a part of the drawers. Materials (and instruments in lower drawers which the dentist may need to pick up him/herself must be placed in this space.
The part of the drawers dentist can reach are crossed.
The fastest to reach is densely crossed and marked D (for dentist) 1
A little further away the space which the dentist can reach is marked with an open crossing D2

The space within reach for both assistant and dentists creates a MATRIX according to assistants and to dentists priority.

“Most important drawer”
What assistant can reach (colored)
Combined with what dentist can reach (crossed)

Lower drawer no 1 and 2
Dentist can reach the left 15 cm of the drawers but in full 60 cm, depending of how open the drawer is.
If dentist sometimes are working alone materials and instruments are placed here.
Ex. Lower drawer no 1, Space D1
Extra handinstruments.
Lower drawer no 2 Space D1.
Everything related to local analgesia.

Lower drawer no 3
“ENDO DRAWER!”
Frequent used materials are placed on the “large material tray” which is placed on the workplate above the “most important drawer” in MEGASPACE.
If the assistant is not present the large material tray is turned towards the dentist.

Lower drawer no 4
“CROWN AND BRIDGE DRAWER”
As by drawer no 3

Lower drawer no 4
“Use it as you like!”

An example: If burstands for each treatments are used burs in this drawer are only occasionally pickt up by either assistant or dentist. Large burstander for supplementary and refill diamonds and burs is placed in the shared space D2 and ASS 2.
If practise don’t use burstands and both dentist and assistant want to be able to take burs and diamonds from a large general burstand is placed in shared space D1 and ASS 1.
THE MEGASPACE CONCEPT INTERACTIVE DESIGN.
The name MEGASPACE is registred by Mercedes, so therefore the “full” name is “MEGASPACE by skovsgaard.”

The MEGASPACE workstation is the result of principles achieved during about 1000 courses of which about 500 were hands on courses in dental practises.

It has unfortunately been seldom to see a workplace for assistant and dentist, which supports high-end assistance. Almost always has it been necessary to make changes or replacements of the “workplace of the assistant” in order to improve assistance.

Visiting earlier IDS and probably at this IDS as well one can see numerous examples of kitchen-like modules but almost never an attempt to make a workstation which interacts with fine teamwork and assistance.

So here it is: MEGASPACE which is a WORKSTATION completely integrated in principles and methods for high end assistance, and for organisation of materials and instruments.

MEGASPACE is an “all in one” solution and no other modules are needed but one or two washelements. However if handinstrumentcassettes or trays are used one can add an storage-module for cassettes and/or trays.

Tubs should not be used as they by MEGASPACE are replaced by “the most important drawer” and large “restaurantsize” 30 x 45 cm trays.

There is plenty of space around the patientchair on the dentists side.

On assistants side she can easily reach handinstrument tray, work table, drawers and if needed large material trays in upper worktable.

An integrated organisation of materials and instruments results in minimal time to be used for preparations of treatments included unexpected treatments.

The assistant does not need to leave the patient. All distances and measures are optimal the assistant have access to all materials and instruments without leaving the patient. Therefore the assistant have time to perform perfect assistance to you.

A new book DANCING HANDS will be published by QUINTESSENZ in september 2013.

The proposed cover is shown at right.

DANCING HANDS sets a STANDARD FOR WHAT EVERY DENTIST AND ASSISTANT CAN LEARN.

MEGASPACE is a part of the “hardware” developped for and demonstrated in DANCING HANDS.

UPGRADING YOUR TEAMWORK TO BEST STANDARD

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With about 1000 lectures and 40 - 50.000 dentists and assistants attending the courses Herluf Skovsgaard is the most well known, reputed and experienced specialist in dental ergonomics and ergonomics related subjects in Europe.
The themes of the lectures and courses are: Workmethods, training of dentists and assistants, ergonomics, organization of instruments and materials in the surgery.
The courses can be held as hands on training courses in your practice.

Herluf speaks English, Deutsch, Francais, Danish and with limited vocabulary Spanish and Italian.
**WORKMETHODS, ASSISTANCE AND WORKPLACE INTERACTS WITH AND CAUSES EACH OTHER.**

**ASSISTANCE.**
A part of the objective of high end assistance is following:---
Dentist must be able to maintain undisturbed concentration on the task he/she performs in the mouth of the patient.
This implies
Dentist must KEEP EYES ON THE TASK without having to look away from the mouth of the patient and as long as necessary and comfortable.
Dentist must KEEP HANDS BY THE TASK without having to reach away from the mouth of the patient
From this base following can be deducted.
Assistant must transfer all handinstruments (and if possible including unitinstruments if she can reach them!) as well as all materials to the hand of the dentist.

**HANDINSTRUMENTTABLE**
To be able to do this the assistant must have an easy access to handinstruments on the handinstrumenttable.

If the handinstrumenttable is placed to right side of the patient the assistant cannot reach the instruments

If the handinstrumenttable is placed over the patient two problems are created:
First: the unit has to be placed at right side of the patient where assistant cannot take ununitinstruments, prepare them and transfer them to dentist.
Second: When the dentist works with horizontal patient in order to maintain fine workpostures a handinstrumenttable over the patient has a very high position where pickup of handinstruments is inconvenient. (Unless if the dentist has height below about 160 cm)

If the handinstrumenttable is placed on the assistants side of the patient it obstructs the best position of aspirationtubes and displaces them to a position partly behind the assistant.

CONCLUSION (which was made about 50 years ago (!) and which still is correct)
For quality-assistance the handinstrumenttable has to be placed at the back-left side of the patients head.
That is the reason for the integration of the instrumenttable precise as it is in MEGASPACE.
It is placed on a “telescoping” support on a short movable arm to be placed in best position for assistants left hand instrument-pickup

Now both assistant an dentist need to learn each their skill. It is learned by repetition of the different movement in th skill, like a musician or a dancer is training.

This means that the assistant have to learn to pick up handinstruments by her left hand (crossed over right hand,which may be used to hold the aspiration tube)
You will find a step by step guide for assistants handinstrumenttransfer to the dentist—later.

What happens if the assistant is occupied and the dentist him/her—self have to take a handinstrument. This can be done in a fine posture and in less than 1 second using a left to right hand instrumenttransfer
You will find a step by step guide later.

**WORK TABLE IN 2 LEVELS** provides almost 1 m² surface to be used by both assistant and dentist

Many assistants move around in order to find and prepare materials to a certain treatment.
MEGASPACE contains “everything” so the assistant can stay close to the patient and too to assist the dentist.

The worktable of the assistant is places just besides the assistant with lots of place (80 cm) for materials.

**THE MOST IMPORTANT DRAWER**
Just above the worktable the “MOST IMPORTANT DRAWER IN YOUR PRACTISE” is placed. Storage area 360 cm² corresponding 3 standard drawers
Using plastic trays with different subdivisions the materials here can be organized with very high “density”

When buying a MEGASPACE you have to specify the plasttrays you want to buy. (number of subdivisions)
See photo with numbers later.

There may be placed up to 100 small materials, see photo.
They can include “everything for composite”
All materials in this drawer is picked up “from above” with a tweezer (which not is used in mouth of the patient)

The materials placed in the “MOST IMPORTANT DRAWER” are placed with strict priority of frequency of use.
The best access for the assistant is the exterior 20 cm of the drawer, so here are placed the materials used most frequently by the assistant. Less frequent used materials are placed in the inner part of the drawer.
THE MOST IMPORTANT DRAWER replace about 2 tbs (of the type used in some practices)

Materials which the dentist too have to be able to take is placed in left side of this drawer, ex burs, diamonds cottonrolls etc.

**LARGE MATERIALTRAYS**
On the top of the “MOST IMPORTANT DRAWER” the worktop is used for LARGE 30 X 45 CM MATERIALTRAYS.
These large restaurantlike trays are used for organizing materials for treatments where many materials are used as endodontics and crown an bridge procedures.
Each LARGE MATERIALTRAYS replace 2 traditional tbs which are much too small for practical use.
The LARGE MATERIALTRAYS have low edges so it is easy to see materials on it from the side and take them as well.
The LARGE MATERIALTRAYS are stored in one of the lower drawers.
When a LARGE MATERIALTRAY has to be used , it is moved from the lower drawer to the workposition on top of the MOST IMPORTANT DRAWER.

**THE DENTISTS WORKPLACE**.
The dentist has a fine workplace at left side of the MEGASPACE. Here is place for a keyboard, best with a small version (ex Logitec) . On the upper worktop one can place ex models where details may be inspected without the dentist have to bend down.

**THE LOWER DRAWERS** are very have a size of 90 cm x 60cm.
The lower drawers are delivered without inserts, which best is cassettes-in aluminium.
You must yourself buy them by your dental depote or may be on webshop like from www.nichrominox.com
The best solution is to place handinstruments single or in groups in closed sterilized plastbags for sterile storage.
If you prefer “open storage” you buy instrumentsupport to be placed in the cassettes—see photos.

The exterior 15 cm of the lower drawers can be accessed by the assistant during the treatments, so here instruments and materials frequently used are placed.
The dentist have solo acc ses to the part of the lower drawers closest to him.
It is suggested that handinstruments he/she may take him/herself in a drawer is placed here.
So is “everything” for local analgesia.
Assistant use suction and syringe to retract soft tissue to clean mouth to dry cavity or to dry mirror when dentist is working with mirror and spray at the same time.

25 cm between micromotor contra-angle and the mouth of the patient.

Dentist takes unit instrument with a finger before hand is closed.

Assistant takes suction tip with right hand.

Unit tray for solo work.

Dentist takes instrument from below.

HANDED INSTRUMENT TRANSFER

Assistant takes instrument with left hand on instrument tray placed as shown.

New instrument parallel with used instrument.

Little finger ready.

Little finger takes used instrument.

And assistant places new instrument in dentists hand in exactly same position.

Used instrument is placed on tray.

SOLO INSTRUMENT TRANSFER FROM TRAY

Dentist takes new instrument with left hand.

And is ready to transfer with new instrument parallel to used one.

Used instrument is taken with left hand between middle finger and index finger.

Used instrument is taken and left hand has begun to rotate a bit.

Which places new instrument in right hand with kept support on head of patient.

This can also be done with a mirror in “rest position” as shown.

GUIDE FOR INSTRUMENT GRIP AND INSTRUMENT TRANSFER.

The methods can best be learned by 50 (50) repeated exercises made 3 times.

H. SKOVSGAARD, DENTIST CONSULTANT AND LECTURER IN ERGONOMICS.
PLASTTRAYS WITH SUBDIVISION FOR “MOST IMPORTANT DRAWER”
Mesure 1,5 x 18 cm. The red numbers in the photo above indicate the number of subdivisions.
The plaststrays above are following.

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PLEASE ORDER THE TYPE AND NUMBER OF PLASTTRAYS YOU WANT TO BUY TOGETHER WITH THE MEGASPACE.

ATTENTION: The plasttrays are thermosensible and cannot be sterilised or cleaned in thermodisinfector or autoclave. Only cleaning manual in warm water.

WHEN BUYING PLEASE REMEMBER TO DO FOLLOWING.

Control the width of all doors is 80 cm so the 76 cm deep MEGASPACE can pass the doors.

Make a precise measurement of the position of MEGASPACE in relation to the wall behind it and in relation to the patient chair.

Reed thoroughly the installation plan and be sure the position of the patient chair is measured with horizontal back and placed in the vertical position in which you work.

Consider possibility of moving the patient chair if needed.

By ordering a MEGASPACE specify the plasttrays you want.

Order too at least 2 LARGE MATERIALTRAYS.
(One for endodontics, one for crown and bridge procedures)
Extra large materialtrays may be considered for temporary crown systems.
Otherwise full size metal cassettes (bottom part) is used as for storage and fast placement position for use over the “MOST IMPORTANT DRAWER” Example: Cassettes for post and cements

TO BUY FROM YOUR DENTAL DEPOTE:
Remember that you must yourself buy the cassettes (bottom part) used for organizing the hand instruments.

You can pack hand instruments for a certain treatment in a “set” in an autoclave sterilized paper bag.
Single instruments may too be paced and stored sterile.

Single instrument may alternatively be stored open in a cassette with instrument inserts as shown. Hand instruments are picked up with a tweezer only used for instruments.
Used and sterilized hand instruments are replaced in the cassette, which as a whole may be sterilized “frequently”!
MEGASPACE INSTALLATION PLAN

Position in relation to patient chair and walls.

It is our experience that the buyer, you as dentist must read following to level of understanding and yourself take care of the delicate measuring of the position of patient chair and Megaspace (and unit)

Kind greetings Herluf Skovsgaard.

The distance between upper part of headrest of patient chair and the wall A behind it is only 100 cm. This is equal to or shorter as average. Many think the distance is much longer.

The position of the patient chair in relation to MEGASPACE must be very precise as marked in drawing. This makes sure that the dentist can work in all “clock positions” from 9, 10, 11 to 12 and makes sure that the dentist can fully take advantage of his/her workspace at dentist side of MEGASPACE.

IMPORTANT. There must NOT be placed other modules at dentist side of MEGASPACE. There must be at least 80 cm free space at dentist side.

At the assistants side the precise position assures that she as everything within reach close to patient.

Please note that the measures of the position of the patient chair relate to a HORIZONTAL PATIENTCHAIR in the altitude in which the dentist works. It is important to take the measures like this, because chairs not supported at the side (sideliftsystem) all move horizontally when they are move up.

With a few exceptions (Technodent and Flex Integral) the patient chair moves in direction of the patients feet when moved upwards. This horizontal movement of the patient chair can be more than 15 cm.

ASSISTANTS SIDE B

From the midline of the chair to the wall B behind the assistant the distance is at least 175 cm. Then there will be place for the unitbridge to be parked here, and too space for assistants stool.

If one never want to park unitbridge at the assistant side the distance to B may be reduced by 25 cm However then the distance from midline of chair to wall D have to increased by 25 cm leave place for “parking” the unitbridge at dentist side.

ASSISTANTS WASH ELEMENT.

This element is 60 cm wide, see 3D design no 3. This means that compared with drawing at left side a 10 cm must be added at assistant side of MEGASPACE.

On the wash element there is a bowl placed on tabletop in same vertical level as worktable of Megaspace. The wall mounted upper module contains place for gloves, serviettes and ex soap or alcogeldispenser.

Alternatively washelement may be placed for assistant as marked by wall B at the drawing.

STORAGE ELEMENT FOR CASETTES OR TRAYS AT RIGHT SIDE OF MEGASPACE.

Instead of a wash element at immediate right side of MEGASPACE a 50 cm wide storage module can be placed fitted with inserts for standard hand instrument casettes. A wall mounted element may be mounted as well which may be used for materials used for change of patient.

DENTISTS WASH ELEMENT.

In some countries alcohol disinfection has replaced hand washing before taking gloves on. In this case the dentist rarely needs to use the wash element and if needed may use the assistants wash element if placed at “lower part” of wall B.

WINDOWS MAY BE PLACED ANYWHERE (except where a upper wall mounted storage element is placed.

DOORS CAN TOO BE PLACED AT SEVERAL POSITIONS.
MEGASPACE 50 cm from wall at right side
One or two wash elements
Note 2 computerscreens are recommended.

MEGASPACE with a 50 cm storage module besides for ex
cassettes or trays + (may be) a wall mounted storage module.
One or two wash elements
Note 2 computerscreens are recommended.

MEGASPACE with a 60 cm wash module with a bowl+ wall
mounted module for serviettes, gloves, alcogeldispenser.
Note 10 cm must be added at right side of patientchair in comparation with drawing previous page.
Note 2 computersscreens are recommended.
WHERE TO PLACE THE COMPUTER
Depending on the size there are several possibilities.
If the computer is a small size “client” which never should be touched it can be placed in the base of MEGASPACE.

There is made "an installation tube" from the base of MEGASPACE to the upper workplate.

If the computer has a large size cabinet it may be placed in a module placed at right side of MEGASPACE (assistans side)
(may be at one side, where the rest of the cabinet is stored

If the computer is a slim version it may be placed at the dentists side of the MEGASPACE.

If the computer is a flat version of limited size it may be placed under the computerscreens.

WHERE TO PLACE ACCESSORY INSTRUMENTS

ACCESSORY INSTRUMENTS USED BY ASSISTANT:
Accessory instruments like mixing apparatus, vibrator etc which the assistant is using is best placed on a module at right side (assistants side) of MEGASPACE. Position E
Smaller ones at MEGASPACE right part.

ACCESSORY INSTRUMENTS USED BY DENTIST
The position of the acessory instrument will depend on the frequence of use.
If electrosurgery equipment is seldom used, it may be stored in the lower drawer and placed on upper level workplate, position C for use.
The tubing is slooping down at dentist side of MEGASPACE, and the handpiece is placed on the handinstrumenttray position D. The handpiece is transferred to dentists hand by the assistant or dentist is taking it by left to right hand transfer ( se page 11)

If the accessory instrument however is used frequent it may be placed on MEGASPACE worktable in the corner position B (and may be pulled forward for use)
As above the handpiece is placed on handinstrumenttray position D with tubing slooping down at dentists side.

Other accessory instruments may be stored on a 25 cm deep shelf mounted on wall on the dentist side of MEGASPACE., position A
When in use they can ex be placed on the upper workplate (above “the most important drawer”, or placed in position B—may be pulled forward
The handpiece is placed on the handinstrumenttray position D and the tubing is hanging down on dentists side of MEGASPACE.

WHERE TO PLACE THE X RAY APPARATUS
The ideal position is on the wall at the dentists side of MEGASPACE.
The horizontal arm closest to wall must be 80 to 90 cm long, which enables to take x raysphotos on lower incisors of a semireclined patient.
The vertical position must allow the arm to swing into “parkingposition” just above the 2 computerscreens on the upper workplate of MEGASPACE.
The vertical position has to be verified according to the height of the computerscreens.if very large screens are used.
Normal position of the 80—90 cm arm closest to the wall will be 160 cm above floor.
The position of the arm in resting postion correspond roughly the lenght of the shelf mounted on wall in illustration left.—The mounting on wall could be above the letter “A” on illustration.