



### **OCCASION**

This publication has been made available to the public on the occasion of the 50<sup>th</sup> anniversary of the United Nations Industrial Development Organisation.



#### **DISCLAIMER**

This document has been produced without formal United Nations editing. The designations employed and the presentation of the material in this document do not imply the expression of any opinion whatsoever on the part of the Secretariat of the United Nations Industrial Development Organization (UNIDO) concerning the legal status of any country, territory, city or area or of its authorities, or concerning the delimitation of its frontiers or boundaries, or its economic system or degree of development. Designations such as "developed", "industrialized" and "developing" are intended for statistical convenience and do not necessarily express a judgment about the stage reached by a particular country or area in the development process. Mention of firm names or commercial products does not constitute an endorsement by UNIDO.

#### FAIR USE POLICY

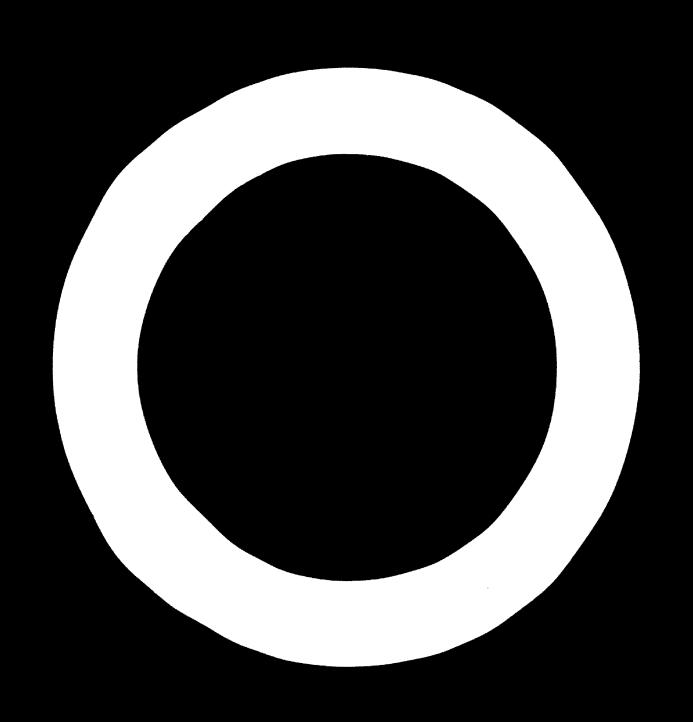
Any part of this publication may be quoted and referenced for educational and research purposes without additional permission from UNIDO. However, those who make use of quoting and referencing this publication are requested to follow the Fair Use Policy of giving due credit to UNIDO.

### **CONTACT**

Please contact <u>publications@unido.org</u> for further information concerning UNIDO publications.

For more information about UNIDO, please visit us at www.unido.org





The description of a probability of the management of the second of the

## Watermery Week

willer, every home common to the according a product of protections that the trees mis encourage to the contract of a post of a finished in the trees mis encourage to the contract of a post of a finished in the affirm a model of an according to the affirm a model of an according to the accordin

Starting from the period 1956 to 1955, which has really morked

the starting point of the 'boom' of Italian wood industry, the sawralls were competed to most new requirements caused by the larger and larger importance of large diameter logs from the tropical forests, The small had some used up to that time, which were non-celly encopy for maximum conferate and populars, had so be replaced with other maximum capable of wasing logs with diameters up to 1 m - 1.20 m. Several Italian companies have devoted themselves to this problem of sawing large logs with excellent results.

The introduction on a large scale of tropical woods in the lialian factories has also had the double effect of accelerating the concentration of the enterprises and of causing the installation of large sawmiles close to the harbours where the logs imported from overseas arrived.

## 2) Plywoods

This industry started shyly in italy as the end of First World War and beginning with 1950 grew rapidly on a parallel basis with the popular growing start. As a matter of fact, up to 1955-1960 the gratest part of Italian phywoods were made with populars. However, the better volume yield of the large stubs of tropical woods and, at the same time, the difficulty in procuring popular logs suitable for planing, have obliged the phywood manufacturers to use tropical woods at an increasing rate, while, in order to work these logs, it was absolutely necessary to use machines specially conceived for this purpose.

Districtly the solvent to an apposite, out the out of an food, wood splines of manifold, painted, world is owner tong thicknesses in 20 to 2 come, on more, has an based the manufacturers to a cother problem will all amplications related to it.

The details on modern placens madelines and presses will be supplied by another apendor

## 3) Cuts

The production of thin layer, of decorative woods to be applied on the surface of plain woods or on pracis, has a great importance in Italy and, while formerly it was necessary to have recourse to the manufacturers of foreign countries to get some good cutting machines, nowadays the halloud industry is manufacturing excellent machines provided with really original ingenuities.

# 4) Fiber Panels and Chip-Boards

The first of these industries, which are chiefly using scraps of sawmills and some soft leafy wood: fnoplar, alder, willow trees) has not had a large expansion in Italy, even though for certain uses the fiber panels are to be preferred to the plywoods. On the other hand, the fabrication of chip-boards, which was favoured in the years between 1960 and 1970 by an abundant

production of populars, which is the element that supplies a first of as now material for this type of penets, has developed at a representational for this time (is a subsequent for this product was uniqued for 1968 there were first them, in 1967 to be a subsequent for the penetral profuction exceeding a monopole, in non-pane.

Aithough some production lines are provided with machines built in other countries, it is however opportune to underline that other plants are users muchines, presses and expopment units of balins make.

## 5) Wood Wool Panels

This industry is considerer, in various countries, a second class one, but, in our opinion, it is cabale of doing really precious revices to the developing countries, because it can contribute to the solution of the pretabilication problems of theap hooses or, more praerally, of any kind of constructions. These panels are obtained by wood wool mixed with mortar, cement or any other mineral agglomerative; after the setting of the agglomerate (helped and accelerated in oven) the block is submitted to a frame gang mill, which makes the panels in the desired thicknesses. It is therefore an installation of little importance about which it is possible to add some detail further on.

Perhaps it is good to remember that the wood wood tealled tvirutal in Spanish and texcelsion in North Americal, has

some other important uses, for instance in the packing area for padding or to locate and protect fragile objects, glasses, etc.

## 6) Furniture and Joinery for indoors

After the World War, this group of industries has had a remarkable growth, which is strictly connected with the radical modification of the aims, structure and organization of work. As a matter of fact, in past times the operations were limited to copying, more or less exactly, turniture, doors or widows with characteristics which, according to the different regions had been consecrated by centuries of tradition. It was essentially a handicraft work, almost a routine one, where the craftsmen gifted with artistic ability had the possibility of emerging and even of leading teams capable of supplying a very limited market with first class products. The economical and social evolution which took place after the war has oriented furniture and indoor fittings production in general towards entirely different bases.

The problem which arises today is not that of making luxury furniture for some flats of multi-millionaires, on the contrary, it is that of making available for the middle class and the labourers some thousands of series of furniture pleasant to see, functional and not so much expensive. All this can only be obtained through a deep study of the problem and a thorough

application of the principles of industrial organization, beginning from the research for more countilly machines and for cool disating times within he production lines, and eading with he reas around according to a machine and preparation of the particle be is semicled in other places, rapresent the market and transport research shall not be forgotion, together with the most effect we adventising and premotion masses.

This new type of prospect has made incorner to the evaluation of Italian furniture production consing the disappearance of a great number of jenses is maps or appet landers ories and replacing there with a real production of large factories, with hundreds or even housands of workers.

The manufacturers of woods working and him s have been able to take advantage of this development, by chandoning the obsolete concepts and exploiting the latest discoveries of modern techniques. The evolution mentioned above has also considered the modification of now materials under a double point of view, the replacement of the Italian woods or of those imported from Europe with the tropical woods, and the widespread use of panels (especially chipbon, is) in place of solid wood.

The repuse gained by Italian farmiture throughout the world is a clear proof of the progress made in this field, which we hope you will be able to remark in the next days.

## 7) Packapas,

Package continuition of very time and regards a large are conformative of the order to keep prince within acceptance. Income to be apprince within acceptance. Income to be a real prince which is observed to be marked too much. This take nection which is observed been at the handler of type, executed by and made as pressently reade by machines which are not only capable of spaners and we as kers! physical takens, for all new adaptive their elements to the most different recomments, which go from the large cases and leading paties, to the boxes for cheers, it is estimates, cakes, dried fruits, etc.

than wood state that the age of wood, which is an absolute material, is finished and that it is necessary to have resort to all more modern things a metals, different alloys, plastics, etc. At the same time the people engaged in each ag promotion shout everywhere that nature is disappearing and that it is necessary to think of a drastic reduction of forestal applications. It weems to us that both the first and second statements are made deliberately without taking into account the objective elements which are in any case undervable.

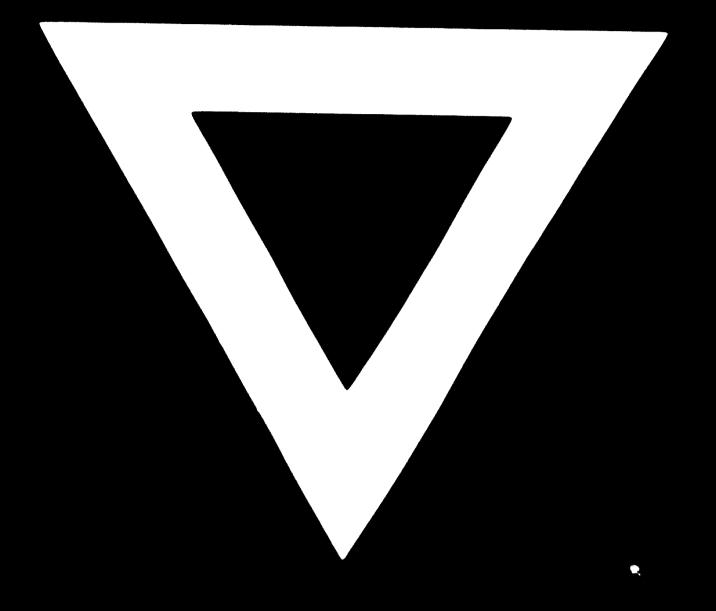
To the supporters of nature to the bitter end we say that forest exploitation, if kept within limits and rutes rationally established by management, will not have any ill-omened result: we wish to perpetuate wood employment, and for this reason

we are the first as method for forests shall be kept in their to'l integrity and improved whenever possible.

To the defendance of towards and filtering for a climican more careful, it should take note to a pleast of instead of wood; neurosan mobile will consider a wooden floor more appropriate than communications a bathroom, but at the same time it shall be soken window? But there is no a worderial so where intimace to be every layer of a one could almost say "approx" - as wood as the family layer of the dramp room, bed-parent layers.

And it is just in also to the wood industry, for the improvenext of which we have all assembled here, that we will be able to perpetuate and make more tight the bond of wood to man life. Item birth to death.





76.06.30