The Research on Improving the Quality of Jinhua Pork Ham YANG YAO-HUAN, Associate Professor of Food Engineering, Hangzhou Institute of Commerce, China HU JIA-XIN, Engineer, Food Company of Zhejiang, China

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SUMMARY:

For the meat scientists and technologists of the world to understand Jinhua Pork Ham-the mous traditional meat product of China, we write this article, and hope that it will attract the readers.

The article briefly expounds Jinhua Pork Ham's historical course of development, survey of production and market, technological process etc. It also emphatically explains how scientificand technical researchers and and technical researchers and managerial personnel have carried out a series of works to rove the quality of the product, since the foundation of P. R. China, on the basis of tradition at technology analysis is here foundation of P. R. China, on the basis of tradition at the china product of the product al technology analysis, i.e. have formulated united quality standards of products and operation technology rules, have trained and operation of products are producted and products are producted and product of products and operation of products are producted and product of products are producted and product of products are producted and producted and product of products are producted and pr technology rules, have trained processing technicians, have improved fresh keeping and edible methods of finished products and so on. Because these underway scientific researches and technical innovations have scientific researches and nical innovations have gained good effects, the product quality is enhanced further. Thus it wins fame all round the world, and is welcomed by both domestic and foreign consumers.

Jinhua Pork Ham is famous for its bright colour, fragrant smell, delicious flavour and ful appearance in the world. Sixon the INTRODUCTION: tiful appearance in the world. Since the Southern Song Dynasty (1127-1279), it has been confident as a precious tribute to confident to the southern song Dynasty (1127-1279), it has been confident to the southern song Dynasty (1127-1279), it has been confident to the southern song Dynasty (1127-1279), it has been confident to the southern song Dynasty (1127-1279), it has been confident to the southern song Dynasty (1127-1279), it has been confident to the southern song Dynasty (1127-1279), it has been confident to the southern song Dynasty (1127-1279), it has been confident to the southern song Dynasty (1127-1279), it has been confident to the southern song Dynasty (1127-1279), it has been confident to the southern song Dynasty (1127-1279), it has been confident to the southern song Dynasty (1127-1279), it has been confident to the southern song Dynasty (1127-1279), it has been confident to the southern song Dynasty (1127-1279), it has been confident to the southern song Dynasty (1127-1279), it has been confident to the southern song Dynasty (1127-1279), it has been confident to the southern song Dynasty (1127-1279), it has been confident to the southern song Dynasty (1127-1279), it has been confident to the southern song Dynasty (1127-1279), it has been confident to the southern song Dynasty (1127-1279). rmed as a precious tribute to emperors in past feudal dynasties, so it gains the name of TRIP HAM. Jinhua Pork Ham has got gold medal prices in HAM. Jinhua Pork Ham has got gold medal prizes in many domestic and international commodity fairly Besides being sold in many domestic regions it has been sold in many domestic regions. Besides being sold in many domestic regions, it has also be exported to Hongkong, Macao, Single pore and the Philippines, as well as some European and American countries.

Brief developmental history of the production of Jinhua Pork Ham: Zhejiang Province Southeast China with a temperate climate and Plentiful products, and is flourishing in raising the Ham in Southeast China with a temperate climate and Plentiful products, and is flourishing in raising the Ham in Southeast China with a temperate climate and Plentiful products, and is flourishing in raising the Ham in Southeast China with a temperate climate and Plentiful products, and is flourishing in raising the Ham in Southeast China with a temperate climate and Plentiful products, and is flourishing in raising the Ham in Southeast China with a temperate climate and Plentiful products, and is flourishing in raising the Ham in Southeast China with a temperate climate and Plentiful products, and is flourishing in raising the Ham in Southeast China with a temperate climate and Plentiful products, and is flourishing in raising the Ham in Southeast China with a temperate climate and Plentiful products, and is flourishing in raising the Ham in Southeast China with the Ham in Sout pigs. The people began making the Ham in Song Dynasty (960-1279). It was confirmed as a collect product by local authorities in Ming Dynasty (4360-1611) ed product by local authorities in Ming Dynasty (1368-1644). It was recorded in many local onicles of Jinhua's subordinate counties. The 1995 onicles of Jinhua's subordinate counties. The 1885 revised Compendium of Materia says: "Laphy the popular name of ham, is finely made in Linhua." the popular name of ham, is finely made in Jinhua, the salted hams are divided into winter and spring ham. It is also differently made from and spring ham. It is also differently made from front leg or hind leg. Winter ham is made hind leg, its meat is delicate and thick hind leg, its meat is delicate and thick, and it can be kept without deterioration for loss

Early at the end of 17th century, Jimhua Pork Ham was exported. At the beginning of 20th and 11th was displayed at many domestic and intermetional tury, it was displayed at many domestic and international commodity fairs, and it won gold prizes at Southeast Asia Quanye Fair in 1910. Chinasa Commodity fairs, and it won gold prizes at Southeast Asia Quanye Fair in 1910. prizes at Southeast Asia Quanye Fair in 1910, Chinese Goods Exhibition in 1915 and Panane ternational Fair. It gained Special Ovelity Decimals ternational Fair. It gained Special Quality Prize for Commodities at Westlake International in 1929. According to historical data of industry and commodities at Westlake International in 1929. According to historical data of industry and commerce in 20th century, the production of the ham was distributed over every subordinate. of the ham was distributed over every subordinate county of Jimhua Prefecture. There were reds of ham workshops which could produce 960,000 hams of reds of ham workshops which could produce 960,000 hams at most a year. Besides ham workshops the peasants raising pigs in the counties made have the peasants raising pigs in the counties made hams by themselves. Because of a series of lack of funds and bad management. the ham industry lack of funds and bad management, the ham industry gradually declined. The ham production ed bottom in 1949, the capacity of which was only 26

After the foundation of P. R. China, Jinhua Pork hams are unitedly managed by state-operated at some 800.000 a year in 1000 commerce. The ham capacity is stable at some 800,000 a year in 1980s after several rises capacity. falls. Besides state-operated enterprises, still some rural enterprises produce hams, the ty of which varies considerably and accounts for about 10 percent

The situation of production and market: Jinhua Pork Hams were transported from production and market: After the transported from production and then to other cities in the Country. After the country has been been also been decided by the country of the country to Hangzhou, and then to other cities in the Country. After the railway is open to traffic of Shanghai became a hub of transportation and market. Now Jinhua Pork Hams are sold in part of the such as Beijing, Tianjin, Guangzhou. es such as Beijing, Tianjin, Guangzhou, Amoy. After the Opium War (Britain's invasion of the 1840-1842), Jinhua Pork Hams were directly exported. After D. D. G. 1840-1842), Jinhua Pork Hams were directly exported. After P. R. China was founded in 1949,

***portation of Jinhua Pork Hams was unitedly managed by Shanghai Food Import & Export Corporation of Jinhua Pork Hams was unitedly managed by Shanghai Food Import & Export Corporation tion. By 1986, totally 3,540,000 Jinhua Pork Hams had been exported. They were mainly marketed to Hong kong.

Process technology

There is a complete set of strict and scientific technological processes in making Jinhua Pork The flowchart is shown as figure 1.

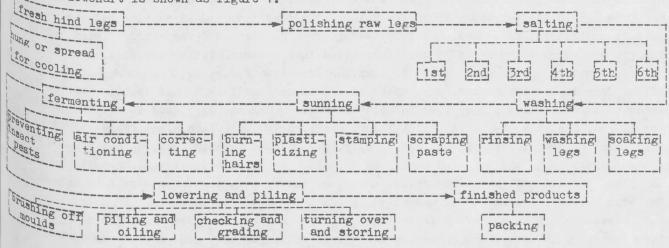


Figure 1 flowchart Jinhua Pork Ham processing

Operating rules in processing Jinhua Pork Hams

the stating rules in processing of the state of pigs) and the state of pigs of A.Choose hind legs of healthy Liangtouwu pigs which are proved qualified by veterinary tests before and after slaughtering as raw materials.

b. Male and after slaughtering as raw materials. and female, sick and injured, yellow fat pigs and those which catch dermatosis are not and remaie, as raw materials.

C.Do not blow air when slaughtering pigs, the hairs and blood should be cleaned, no damage and orythoma are allowed. Tresh legs must be spread out or hung one by one to cool and keep fresh without being pollu-

Weight: The suitable net weight of each fresh leg is between 4.5-8 kg.

Skin layer: The suitable skin thickness of fresh legs is less than 35mm, the thinner, the Pat. Presh legs with rough skin and big foot are not suitable for raw materials.

Pat: The fat thickness of the roots of legs which is set up as a standard should be less than 3cm, the fat thickness ... the thinner, the better.

Colour: Muscle is bright red, fat is pure white, skin colour is white or light yellow and Without softening and adhering signs.

Appearance: The centres of legs are full, the feet are very small, the shape of legs is com-

2. Polishing raw legs: Polish fresh legs with a knife into bright and clean ones. Remove aitch longs, leg bones, sacral vertebrae, lumber vertebrae and caudal vertebrae to make a neat appeathen cut the edge of legs into semilunar shape, finally squeeze out extravasated blood to then cut the edge or replacement bacteria and deterioration.

Salting: Salting hams is considerably influenced by temperature and humidity. The tempera-Salting: Salting hams is considerably influenced by temperature and number of Springs should be between 0°C and 15°C, relative humidity be 70 % and 90 %. So the best time for the state of the solar term) and the Begining of Springs the solar term and the Begining of Springs the solar term. Should be between 0°C and 15°C, relative humidity be 70 % and 90 %. So the local ting the hams is between the Begining of Winter (19th solar term) and the Begining of Spring solar term) (18t solar term) each year in Jinhua region.

Salting operations have much concerns with the quality of the products. The quantity and tipe applying salt must be strictly controlled of applying salt must be strictly controlled according to the size of legs, thickness of legs centre, meat quality, fresh degree, temperature and humidity. (see table 1) If too much salt is used, the activation of enzymes is restrained and the finished products are fragranceless, the quantity of salt is not enough, the growing and breeding of harmful microbes can not be checked so the finished products are fragranceless. cked, so the finished products easily go bad and can not be stored long. The quantity of salt go erally is 3.5 to 4kg for every 100kg. erally is 3.5 to 4kg for every 100kg fresh legs. The time interval of salting and the quantity of salt are determined according to the temperature, humidity and the speed of wind. Whole ing process which lasts 25 to 35 down ing process which lasts 25 to 35 days is divided into 6 steps. Piling dry salting method has parallel feet piling form and cross feet piling form (see figure 2). In middle winter, cross piling form is adopted because more space is piling form is adopted because more space is spared and the legs do not decline easily. In seasons, parallel feet piling form is reasons. seasons, parallel feet piling form is more suitable as air can circulate easily, and the left not go bad. Generally 12 to 14 miliar laws not go bad. Generally 12 to 14 piling layers are regarded as suitable, and there should be no more than 16 layers. When piling legs, gently take and put them in order as not to drop the grains. The legs should be piled tidily or all and grains. The legs should be piled tidily on all sides to prevent declining. Each time when is added, the old salt should be moved that is added, the old salt should be moved, then just the right amount of new salt is spread event. The skin surface of legs should not be solded

4. Washing and Sunning: after fresh legs have been salted, the legs which are called salted legs contain much water, and there are much dirts and impurities adherent to the surface. the legs should be washed and sunned in time, dehydrated and kept clean to prevent moisture sorption and creat conditions for late formula for late for lat sorption and creat conditions for late ferment. The washing and sunning course contains following processes: ing processes:

Soaking legs: The salted legs are soaked in fresh water pond. Water quality should meet health mands. Salted legs are soaked layer upon layer in fresh demands. Salted legs are soaked layer upon layer in fresh water pond, with skin surface un, and the top layer does not go out of water me. the top layer does not go out of water. The soaking time is determined by climate, the size of legs. the quantity of selt and water. legs, the quantity of salt and water temperature. In winters (water temperature below 10°C),

Table 1 Salting order, interval and quantity

salting order	salting interval	salting quantity for	notes
	(day)	every 5kg fresh legs (g)	
1st time 2nd time 3rd time 4th time 5th time 6th time	1 (1st day) 1 (2nd day) 5 (7th day) 6 (13th day) 7 (20th day) 7 (27th day)	about 75 g about 150 g about 75 g about 50 g about 25 g reduce according to the situation	all the data are adopted under 5° to 10° C ambient temperature

soaking time generally 15 to 18 hours. In spring (water temperature above 10°C), soaking time to 8 hours. Soft and give aked surface is aimed the Washing legs: scrub soaked salted legs on by one with bamboo broom ms or washers, then golf time

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ms or washers, them again in the pond for 2 to 3 hours, and scrub them for the second time till they are pletely clean.

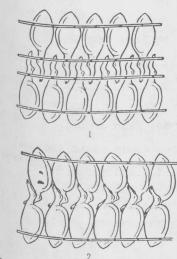
Sunning legs: two clean salted legs are tied at bends with a string. They are sunned in pair discount the shelf without contact, one above another with the contact. on the shelf without contact, one above another with the faces . towards the sun for even tance, full sunshine and good circulation. At with the faces . tance, full sunshine and good circulation. At night, the leg shelves should be covered with early tance, full sunshine and good circulation. At night, the leg shelves should be covered with

Scraping legs: after the washed legs are hung on the shelves, the remnant hairs, greasy that the delet water should be eliminated with a knife. Proceed to the deletion of the shelp of the deletion of the shelp of the deletion of the shelp and left water should be eliminated with a knife. Press out remnant blood and water at the sticking points. When the surface is a bit dry storm.

Stamping: when leg surface is a bit dry, stamping and plasticizing begin.

Stamping: when leg surface is soft and a bit dry in about two-hour sunning period, trade period of Jinhua Pork Ham are printed, which should be regular and clear.

Plasticizing: In the sunning course, the legs must be plasticized timely. When the legs are laid on the plasticizing hard is basically dry, the legs are laid on the plasticizing bench and gently beaten with a wood mallet on hock joint to make foot bones neat make the manufacture of the same of the make foot bones neat manufacture. mallet on hock joint to make foot bones neat. Then the paw is pressed against the the centres. Finally the series of the legs are pressed by both hands against the the centres. to form a 45° angle. The legs are pressed by both hands against the bench to make full legs are rubbed and tapped to Finally the skin surfaces are rubbed and tapped to make them smooth. By plasticity, the left the last the bench to make full control to the last the skin surfaces are rubbed and tapped to make them smooth. By plasticity,



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Pigure 2 salting piliing method parallel feet piling form

shaped like bamboo leaves.

Burning hairs: When the legs are sunned dry and skin shrinks , the remnant hairs appear, which must be burned off with a petrol blowtorch. Perform the operation quickly and evenly, and do not char the skin.

Sunning time: 5 to 6 days in winters, 4 to 5 days in springs , the skin is sunned firmly and yellow.

5. Fermenting: The sunned legs are fermented to give out aroma and be kept for long storage. Fermenting should be carried out in buildings which have leg shelves and are flyproof

, dampproof, heat insulated, ventilated, dry and clean. The whole fermenting period lasts about 6 months. The hams must be separately hung in order on the shelves according to the sizes . There is certain distance among them for good ventilation. Windows are opened on fine days and shut on rainy days. They

cross feet piling form are shut on days and opened at highest and optimum temperature and regular fermentation. In fermenting rooms, the optimum temperature, and optimum temperature and regular fermentation. is 25°C to 37°C, the optimum humidity is 60 % to 70 %. After a certain time of fermentation 18 25°C to 37°C, the optimum humidity is 60 % to 70 %. All of tissues of the leg shrink differently and form a uneven surface. Polish the hams the polished hams in turn on the shtor the last time to make them appear more beautiful. Hang the polished hams in turn on the shand continue fermenting until they give out aroma in dog days.

At the early fermenting stage, apparatus must be fixed to contain the dropping oil for cleanhams or other uses in case oil pollutes the surroundings.

6. Lowering and piling: In dog days, the hams begin giving out aroma. Lower them in turn from the shelves and brush off the moulds. Clean the hams with oil and pile them to encourage later Thening and brush off the moulds. Clean the name with the stand brush off the moulds. Clean the name with the stand of the moulds. Clean the name with the standard softening. Then grade and pile the hams according to their quality. Now Jinhua to the standard softening. Pork Hams are finished.

Strenthening Technological Management and Improving the Quality of the Products After the foundation of P. R. China, researchers and managing personnel have done the following Norks to improve the quality of Jinhua Pork Hams:

1. Formulating united quality standards of the products. Jinhua Pork Hams used to be made mainly in dispersive workshops. Now they are processed and Anaged by united state-operated food incorporations. United quality standards are formulated improve to the quality of products and facilitate the management. They are as folliws: (1) Sensory targets

colour	Sensory targets The skin is bright yellow, muscle section is dark rose or pink. Fat section
	is white or light red with lustre
	Ham shape is standard, the foot bend and leg end are in alignment; the dis-
ahape	tance between the middle of leg bone-end and the middle of hip bone is basi-
	cally equal to the width between hip bone-end and the belly; the distance be-
	tween the middle of leg bone-end and the middle of hip bone is 1 to 2 cm
	longer than that between the middle of hip bone and leg end; meat can not be
	seen from skin surface, skin can not be seen from meat surface; the ham tak-
1	es the shape of a bamboo leaf, the paw is bent to form a acute angle without
tissue state	cracks, and the stamp is clear.
odour state	The meat is compact and solid, the section is neat.
Impurity	The meat has a special aroma of Jinhua Pork Ham.
TTTY.	Hairless.

(2) Physical and Chemical norms

Nitrite content in Jinhua Pork Ham (mg/kg, shown as "NaNO2") should be less than 20.

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Grade	Aroma	Meat Quality	Weight	Shape
Special grade	It smells fragrant	Lean meat is more than fat.	2.5 kg	Skin is fine and foot is small and stinght. Fat is less. Skin is bright yell
	after three sticking	Ham centre is full	to 5 kg	without hairs and erythema. No damage,
first grade	It smells fragrant after two sticking no peculiar smell in the left sticking	Lean meat is more than fat. Ham centre is full	More than 2.25 kg	ema for domestic marketed hams.other quirements are the same as special gri
second grate	It smells fragrant in one sticking, no peculiar smell in the other two sticking	Ham centre is a little thin, but leg bone joint is not exposed. The root meat is a	More than 2 kg	Foot is straight but a bit thick. No moth-eating or rat-biting signs. Knift traces are fine. No hairs.
third grade	There are peculiar smell in one of the three sticking but	The root meat is a bit salty	More than 2 kg	No rat-biting signs, but knife traces are rough.

Notes: aroma separately insert bamboo stick in three fixed muscle positions, smell it soon after the stick is pulled out; Sticking depth is 1/3 to 1/2 of ham thickness(vertically); Sticking positions—the first sticking is at the seam between leg bone and tibia, the second sticking is at the heals between leg bone and tibia, the sticking is at the back between leg bone and ilium, the third sticking is at the hollow place between sacral vertebra and ilium. between sacral vertebra and ilium.

Jinhua Pork Ham processing techniques used to be imparted to apprentices by master workers fore state-operated food companies were found in fore state-operated food companies were founded, and there were not united technological and operating norms. After Food Carres operating norms. After Food Company of Zhejiang was established in 1954, it made many investigations on the production of Jinbus Pork Us. gations on the production of Jinhua Pork Ham, Jiang Ham and Smoked Bamboo-leaf Ham, and started formulating operating norms. In 1956 and 1957 it there is formulating operating norms. In 1956 and 1957, it three times invited well-known technicians producing areas for conversation. systematically contributed well-known technicians producing areas for conversation, systematically complied their skills, and formulated operation of the skills of ing norms which are now issued and carried out. The main points are : slaughtered pigs must tip bloodless and hairless, the most pust be a bloodless and hairless; the meat must be fresh; the climate change should be well-known in the fermentation of semi-finished products must be considered. ; The fermentation of semi-finished products must be well managed. After the united operating norms are formulated, the quality of products is ensured.

In old days the famous ham technicians kept the technique a secret. So the quality of hams to greatly. After the foundation of P. R. China the fers greatly. After the foundation of P. R. China, the government has paid great attention the special processing technique of Jinhus Port. the special processing technique of Jinhua Pork Hams. Old technicians continue to play roll meantime new technicians are trained. meantime new technicians are trained. A Jinhua Pork Ham middle school has been set up to have qualified personnel. Some young workers are trained. qualified personnel. Some young workers are trained by appointed technicians, and now they have Since 1979, Jinhua regional companies have written ham teaching materials, run short-term

class three times, and trained hundreds of technicians, Now ham processing speciality is the commercial colleges. In 1988, technical personnel in ham factories were evaluated that the commercial colleges. In 1988, technical personnel in ham factories were evaluated that the commercial colleges are their minds the commercial colleges. In 1900, technical porconnection and keep their minds of the commercial colleges, and promoted on salaries. They are activated and keep their minds on the work.

4. Storing Jinhua Pork Hams.

Storing hams in commercial warehouses. The warehouses for storing hams should be built at a ventilated, cool, dry and clean place, Warehouses for storing hams should be built at a voluntary, are dampproof, heatproof, insectproof, ratproof, dustproof and fireproof. Before hams are of the warehouses, the warehouses and apparatus must be cleaned and fully disinfected to The the warehouses, the warehouses and apparatus must be the warehouses, the warehouses. Then they harmful bacteria and worm eggs from breeding. Its thought peculiar smells or insect eggs are allowed to be stored in the warehouses. Then they Peculiar smells or insect eggs are allowed to be seen and producing area, grades, quantity and entering separately piled according to their grades. Producing area, grades, quantity and entering to the warehouses, firm rectantime are recorded on the tags. To raise the utilization ratio of the warehouses, firm rectan-Sular shelves may be set up which have 3 to 4 storeys and 80 to 90 cm storey distance. 5 to 10 layers of hams are usually parallel-feet piled on the bamboo curtain bottoms. Each layer has 10 hams on bottoms face up and the other face down. In the storage period, hams should be he And over in time, usually one time for every 5 to 7 days after dog days; about 10 days after Autumnal Equinox (16th solar term); some 20 days after Slight Snow (20th solar term). The interval time should not be too long in case the close hams go mouldy.

Inverse arrange method may be adopted to prevent hams from losing oil and shrinking in sumorse arrange method may be adopted to prevent hams. As hams do not lose oil in winters, they still are parallel-feet piled.

Storage of Jinhua Pork Hams in retail shops. The Warehouses of retail departments are usually small, so the capacity may not be very large and hams should be quickly stocked and sold in half a month at most. The hams are stored in be his should be quickly stocked and sold in half a month as more than a box and should not be his boxes or baskets with division shelves. 10 to 20 hams are stored in a box and should not be piled too long. Hams must be turned over in time to find problems and to take preventive

Small warehouses should also be ventilated, cool, dry and clean to prevent hams from insect and rat pests or going mouldy.

c. Storage of Jinhua Pork Hams for consumers.

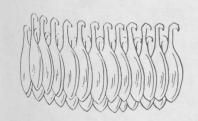
After you have bought one entire Jinhua Pork Ham, you should immediately remove the airtight package, and hang it at a ventilated, dry place to prevent sunshine, rains and pollutions. If the requirements are met, the ham can be stored without deterioration for 3 to 4 years or longer. Except that surface fat oxide layer increases and muscle shrinks a

nethod little, the groma and fresh taste remain and is bought for many meals, the sections must be coated with vegetable oil (the best is rape to be to be be stuck a tier of edible polyoil, bought for many meals, the sections must be coated with vegetable oil (some entire ham must be thoroughly coated), then it should be stuck a tier of edible polythene entire ham must be thoroughly coated), then it should be stuck a state of the films or clean oilpaper. By these means, the hams can be protected from losing oil or shrinking. Shrinking and oxidation which causes rancid taste.

Preventing Jinhua Pork Hams from insect pests. Insects Often encroach on the hams, so insect pests must be controlled to ensure the quality of hams. The insects are often cheese flies, ham moths, green bottle flies, house flies, mites, shell The insects are often cheese flies, ham moths, green bottle lies, had shell worms, soft worms, oil worms, and gold flies etc. These insects damage the nutritive of the of the cheese flies, had sometimes make the persons ill, so Value of Jinhua Pork Hams and their fine appearances, and sometimes make the persons ill, so hygiene and disinfection of the processing sites, warehouses and surroundings must be emphasto protect the hams from insect pests.

e. Bdible methods: predecessors have sumed up pentiful edible and cooking methods about Jinhua pork Hams, they are briefly introduced as follows: Rating raw hams is a simple and scientific edible method. People are accustomed to sipping

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Pigure 3 Inverse arrange

tea or drinking with raw ham slices. One German meat specialist once encouraged people to est raw hams, But most Chinese people prefer to eating cooked hams.

Eating stewed hams: Jinhua Pork Hams can be stewed alone or with other things. Stew the hams alone in clay pots with slow fire, then cut them into slices, eat them while they are hot. taste is delicious, palatable, fragrant and ungreasy; Stew the hams with fresh pork, beef, chi cken, duck meat, seafood and vegetables etc. in clay pots with slow fire, the meat and soap and both delicious, it is a better of the seafood and soap and s both delicious, it is a better edible method.

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Eating steamed hams: remove the hams off skin and bones, cut them into slices, place them in steamer than the steamer than th bowls and cook them in food steamer, this is one edible method; Cook them with fish, shrimps, seafood and vegetables etc. and a little millet wine, onion, ginger and salt in food steamer. Sweet-eating method: soak a big loaf of Jinhua Pork Ham in warm boiled water, Stew it alone or with candied fruit, lotus seed, cherry etc. and a little rock candy or white sugar with slow

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- 1. Jinhua Pork Ham Pressing Technology, Gong Run-long, 1987.
- 2. Hams, Food Company of China, 1983.

fire. When the ham skin is soft, eating may begin.

3. Zhejiang Commercial Records of Meat, Poultry and Eggs, Food Company of Zhejiang, 1980,