

Pouch packaging machinery: Of the approximately 100 pouch packaging machinery manufacturers, the top eight accounted for 48 per cent of production, valued at ¥42 770 million in 1988 (see Table 18). Other major manufacturers include Chuo Hosouki, O-M, Honshu Paper and Tokyo Automatic Machinery.

Table 18

Top Domestic Pouch Packaging Machinery Makers — 1988

Company	Share
Toyo Food Equipment	11.3
Ohmori Machinery	7.7
Fuji Machinery	7.5
New Long Machinery Works	5.9
Tokiwa Kogyo Company Limited	5.4
Kawashima Packaging Machinery	4.2
Ibaraki Seiki	3.6
Toyo Kikai Seisakusho	2.8
Others	51.6
Total	100

Source: Yanno Economic Research.

Wrapping machinery: There are approximately 70 domestic wrapping machinery manufacturers, the top five of which accounted for 32 per cent of the overall ¥29 517 million market in 1988 (see Table 19). Other major manufacturing firms include Chubu Sobi, Fuji Tekkojo, Asahi Seisakusho, Masuda and Kawamura.

Table 19

Top Domestic Wrapping Machinery Makers — 1988

Company	Share
Tokyo Automatic Machinery	11.1
Kawashima Packaging Machinery	10.1
Nippon Automatic Fine Machinery	4.4
Denchi Kikai	3.6
Furukawa Manufacturing	2.5
Others	68.3
Total	100

Source: Yanno Economic Research.

Cartoning machines. Of the approximately 50 domestic cartoning equipment manufacturers, the top five accounted for 55 per cent of total production which was valued at ¥6 771 million in 1988 (see Table 20). Other major manufacturing firms include Chugoku Kogyo, Matsushita, Interpak and Eisai.

Table 20

Top Domestic Cartoning Machinery Makers — 1988

Company	Share
O-M Limited	29
Osaka Automatic Machinery	10.6
Ohmori Machinery	9.9
Fuji Machinery	3
Nippon Automatic Fine Machinery	2.8
Others	44.7
Total	100

Source: Yanno Economic Research.

Vacuum packaging machinery: Total value of production reached ¥12 872 million in 1988. Of this figure, 73 per cent was accounted for by the top five of some 15 domestic manufacturers (see Table 21). Other major manufacturers include Nakamura, Okura Kikai, Nishihara Seisakusho and Adachi Kogyo.

Table 21

Top Domestic Vacuum Packaging Machinery Makers — 1988

Company	Share
Furukawa Manufacturing	35
Toyam Sanki Company Limited	13.7
Toyo Jidoki Company Limited	10.3
Shindaigo Company Limited	8.5
Nippon Polly Cello Industries	5.1
Others	27.4
Total	100

Source: Yanno Economic Research.

Shrink packaging machinery: Approximately 30 manufacturers accounted for total production valued at ¥9 635 million in 1988. Collectively, the top five firms captured 46 per cent of the overall market (see Table 22). Other major manufacturers include Dai-Ichi Hosou, Shiba Kogyo, Osaka Kiko, International Sankyo, Tamba, Mabuchi and Mitsuwa.