PA109

1978

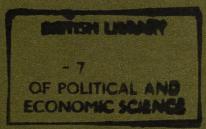
05/42(MA25)

**Business Statistics Office** 

## **Business Monitor**

Report on the Census of Production

Miscellaneous mining and quarrying





#### Special Note for Purchasers

Commencing with the 1971 Census, the Census of Production reports are being numbered in a uniform series embracing all industrial inquiries in the Business Monitor series. Business Monitors have a code P (for production) followed first by A (indicating that it is an annual series) or O (occasional) or O (quarterly) or M (monthly): and then by a number indicating the minimum list heading, or sub-division of a minimum list heading, of the Standard Industrial Classification (revised 1968).

The Census of Production (PA) reports are available on standing order (details on application to Her Majesty's Stationery Office, P.O. Box 569, London SE1 9NH. Telephone 01-928 6977), although they are not included in the global subscription arrangements for the Business Monitor series.

#### **Government Statistical Service**

A service of statistical information and advice is provided to the Government by specialist staffs employed in the statistics division of individual Departments. Statistics are made generally available through their publications and further information and advice on them can be obtained from the Departments concerned.

Enquiries:
Business Statistics Office
Newport, Gwent
NPT 1XG
Newport 56111 (STD code 0633) ext 2455
Telex 497121
Answer Back BSONPT G

## PA109

## **Business Monitor**

A publication of the Government Statistical Service

Report on the Census of Production 1978

# Miscellaneous mining and quarrying

Presented by the Secretary of State for Industry to Parliament in pursuance of the Statistics of Trade Act 1947 (10 & 11 Geo.6 Cha.39 sec 7)

Department of Industry Business Statistics Office

London: Her Majesty's Stationery Office

PA211 Cocoa chocolate and sugar confectionery PA211 Fruit and vegetable products PA211 Fruit and vegetable products PA211 Fruit and vegetable products PA212 Vegetable and animal oils and fats PA222 Start hand miscellaneous foods PA231 Breving and malting PA232 Breving and malting PA233 Breving and malting PA233 Breving and malting PA234 Start hand miscellaneous foods PA233 Breving and malting PA234 Verification of the start of the	List of	Industry Reports, etc.		
And a containing and attent any riving and mining part of the containing part of the contai		Introductory notes	PA369.1	Electrical equipment for motor vehicles, cycles
PA103 Chalk, clay, sand and gravel extraction PA210 Grain milling PA211 Grain milling PA211 Grain milling PA212 Grain milling PA212 Bacute PA213 Blacute PA213 Blacute PA214 Bacute PA215 Milk and milk products PA215 Milk and milk products PA216 Sugar PA216 Sugar PA217 Cocos, chocolate and sugar confectionery PA218 Sugar PA218 Sugar PA219 Cocos, chocolate and sugar confectionery PA219 Sugar PA219 Sugar PA219 Sugar PA219 Sugar PA219 Sugar PA210 Sugar PA211 Cocos, chocolate and sugar confectionery PA211 Cocos, chocolate and sugar confectionery PA211 Cocos, chocolate and sugar confectionery PA212 Sugar PA212 Sugar PA213 Sugar PA214 Sugar PA215 Milk and milk products PA216 Sugar PA217 Sugar PA217 Sugar PA218 Sugar PA218 Sugar PA219 Sugar PA219 Sugar PA219 Sugar PA219 Sugar PA210 Sugar PA211 Milk and milk products PA211 Sugar PA212 Sugar PA212 Sugar PA213 Sugar PA213 Sugar PA214 Sugar PA215 Sugar PA216 Sugar PA216 Sugar PA217 Sugar PA217 Sugar PA218 Sugar PA218 Sugar PA219 Sugar PA219 Sugar PA219 Sugar PA210 Sugar PA211 Sugar PA211 Sugar PA211 Sugar PA212 Sugar PA212 Sugar PA213 Sugar PA213 Sugar PA214 Sugar PA215 Sugar PA216 Sugar PA217 Sugar PA217 Sugar PA218 Sugar PA218 Sugar PA219 Sugar PA219 Sugar PA210 Sugar PA2				and aircraft
PA219 are common and quaryring PA270 Shipbuilding and marine engineering PA281 In Motor vehicle manufacturing and pa281 In Motor vehicle manufacture pa281 In Motor vehicle manufacturing and pa281 In Mo	PA103	Chalk, clay, sand and gravel extraction	PA369.2 PA369.4	Electric lamps, electric light fittings, wiring
PA211 Brad and flour confectionery PA211 Brad and fish products PA215 Miss and milk products PA216 Brad and flour confectionery PA217 Cocon, chocolate and super condens PA218 Cocon, chocolate and super code PA218 Cocon, chocolate and sup			PA370	
PA219 Asson curring, meat and fish products PA219 Asson curring, meat and sugar confectionery PA219 Asson curring, meat and sugar curring the curring of		Grain milling		
PA215   Mark and milk products   PA215   Mark and milk products   PA216   Mark and milk products   PA217   PA218   Face of the part of t				
PA216 bugs chocolate and ugar confectionery				
PA219 Cocoa, chocolate and sugar confectionery PA218 Fruit and vegetable products PA219 Septical and experiment of the septiment of the septim				Aerospace equipment manufacturing and repairing
Fault and vegetable products PA219   Amilian and poutry foods PA210   Amilian and poutry foods PA21		Sugar		Locomotives, railway track equipment, railway carri
PA221 Animal and poultry foods PA221 Vegebale and animal oils and fats PA222 Cuttery, spoons, forks and plated tablewar PA239 Margarine PA239 Margarine PA239 Soft drinks PA239 Soft drinks PA230 Soft drinks PA231 Soft drinks PA231 Soft drinks PA232 Soft drinks PA233 Soft drinks PA233 Soft drinks PA234 Soft drinks PA234 Soft drinks PA234 Soft drinks PA235 Soft drinks PA236 Soft drinks PA237 Soft drinks PA237 Soft drinks PA238 Soft drinks PA239 Soft drinks PA239 Soft drinks PA239 Soft drinks PA230 Soft drinks PA230 Soft drinks PA231 Soft drinks PA232 Soft drinks PA233 Soft drinks PA233 Soft drinks PA234 Soft drinks PA23			D.4.000	
PA2291 Vegetable and animal oils and fats PA2291 Starch and animal oils and fats PA2291 Starch and sincellaneous foods PA2392 Starch and sincellaneous foods PA2392 Brewing and malting PA2393 Brewing and malting PA2393 Brewing and malting PA2393 Brewing and malting PA2393 Brewing and malting PA2394 Starch distilling and compounding PA2395 Cars and metal boxes PA2395 Brewing and malting PA2396 Metal hollow ware PA2397 Droto forgings, etc. PA2396 Metal hollow ware PA2397 Droto forgings, etc. PA2398 Miscellaneous metal manufacture fuel PA2399 Miscellaneous metal manufacture PA2399 Miscellaneous metal manufacture PA2391 Metal furniture PA2392 Droto forgings, etc. PA2393 Miscellaneous metal manufacture PA2394 Miscellaneous chemicals PA2311 Morganic chemicals PA2312 Miscellaneous chemicals PA2313 Miscellaneous chemicals PA2314 Morganic chemicals and preparations PA2315 Miscellaneous and manufacture PA2316 Morganic chemicals and preparations PA2317 Morganic chemicals PA2318 Production of man-made fibres PA2319 Morganic chemicals PA2310 Miscellaneous chemicals PA2311 Morganic chemicals PA2311 Morganic chemicals PA2312 Morganic chemicals PA2313 Morganic chemicals PA2314 Morganic chemicals PA2315 Miscellaneous chemicals PA2316 Morganic chemicals PA2316 Morganic chemicals PA2317 Morganic chemicals PA2318 Morganic chemicals PA2319 Morganic chemicals PA2310 Morganic chemicals PA2310 Morganic chemicals PA2311 Morganic chemicals PA2312 Morganic chemicals PA2313 Morganic chemicals PA2314 Morganic chemicals PA2315 Morganic chemicals PA2316 Morganic chemicals PA2317 Morganic chemicals PA2318 Morganic chemicals PA2319 Morganic chemicals PA2319 Morganic chemicals PA2310 Morganic chemicals PA2310 Morganic chemicals PA2311 Morganic chemicals PA2311 Morganic chemicals PA2312 Morganic chemicals PA2313 Morganic chemicals PA2314 Morganic chemicals PA2315 Morganic chemicals PA2316 Morganic chemicals PA2317 Morganic chemicals PA2318 Morganic chemicals PA2319 Morganic chemicals PA2319 Morganic chemicals PA2310 Morganic chemicals PA2310 Morg				
PA232 Starch and miscellaneous foods PA231 Sort durinks PA231 Sort durinks PA232 Sort durinks PA233 Sort durinks PA233 Sort durinks PA233 Sort durinks PA234 Sort durinks PA233 Sort distelling and compounding PA234 Mestal furniture PA235 Sort durinks PA236 Cros forgings, etc. PA246 Components PA247 Sort durinks PA248 Components PA248 Mestal during the control of man-made fibres PA249 Sort durinks PA249 Sort durinks PA241 Corpanic chemicals PA241 Indigence chemicals PA241 Corpanic chemicals PA241 Corpanic chemicals PA241 Corpanic chemicals PA241 Corpanic chemicals PA242 Corpers PA243 Sort durinks PA244 Sort durinks PA245 Sort durinks PA246 Corpers PA246 Corpers PA247 Sort durinks PA247 Sort durinks PA248 Sort durinks PA248 Sort durinks PA249 Sort	PA221	Vegetable and animal oils and fats		Cutlery, spoons, forks and plated tableware, etc.
PA232 Strict frinks PA239.2 Brewing and matting PA239.2 Strict frinks PA239.3 Direct distilling and compounding PA239.4 Direct distilling and compounding PA239.5 Direct forgings, etc. PA239.6 Metal hollow wareal manufacture PA249.6 Locked and manufactured fuel PA241.1 Inorganic chemicals PA241.1 Inorganic chemicals PA241.1 Inorganic chemicals PA241.1 Inorganic chemicals PA241.2 Organic chemicals PA241.3 Miscellaneous chemicals PA241.3 Miscellaneous chemicals PA241.4 Woollen and worsted PA241.5 Direct direction, linen and man-made file PA241.5 Direction and manufacture PA241.6 Rabination of the strict of the str				
PA239. Soft drinks PA239. Soft drinks PA239. Soft drinks PA239. British wines, cider and perry PA239. Description of the soft				
PA239. I Spirit distilling and compounding PA239. I Mestal furniture PA239. Bettisk wines, cider and perry PA399. Drop forgings, etc. PA399. I Mestal hollow ware passed w	A232	Soft drinks		
PA261 A262 A262 A262 A262 A262 A262 A262	A239.1	Spirit distilling and compounding		Metal furniture
PA261 PA262 PA262 PA263 PA264 PA265 PA266 PA266 PA266 PA266 PA267 PA267 PA271 Increase oil refining PA271 PA271 PA271 PA271 PA271 PA272 PA271 PA272 PA272 PA273 PA273 PA273 PA273 PA273 PA273 PA274 PA274 PA274 PA274 PA274 PA274 PA275 PA274 PA275 PA276 PA276 PA276 PA276 PA277 PA278 PA278 PA278 PA278 PA278 PA279 PA	A239.2			
PA263 PA261 PA263 PA2712 Parameter of the fining PA413 PA263 PA2713 PA264 PA2713 PA2714 PA2713 PA2714 PA2715 PA2715 PA2715 PA2716 PA2716 PA2716 PA2716 PA2716 PA2716 PA2717 PA2718 PA2718 PA2718 PA2719 PA271				
PA271. Organic chemicals PA271. Solar inchmicals PA272. All Solar inchmicals PA273. Miscellaneous shemicals PA274. Paramaceutical chemicals and preparations PA274. Paramaceutical chemicals and preparations PA275. Solar paramaceutical chemicals and preparations PA276. Synthetic resins and plastics materials and PA2776. Synthetic resins and plastics materials and PA2776. Synthetic resins and plastics materials and PA2787 Synthetic resins and plastics materials and PA2787 Synthetic resins and plastics materials and PA2787 Synthetic resins and plastics materials and PA279 Synthetic resins and plastics materials and PA279 Synthetic resins and plastics materials and PA279 Synthetic resins and plastics PA279 Synthetic resins and plastics materials PA279 Synthetic resins and plastics materials PA279 Synthetic resins and plastics PA279 Synthetic resins and plastics materials PA279 Synthetic resins and plastics materials PA279 Synthetic resins and plastics PA279 Synthetic resins and plastics materials PA279 Synthetic resins and plastics PA279 Synthetic resins and plastics materials PA279 Synthetic resins and plastics materials PA279 Synthetic resins and plastics PA279 Synthet	A262	Mineral oil refining		
PA2712 Organic chemicals PA2713 Miscellaneous chemicals PA2714 Moscellaneous chemicals PA2715 Miscellaneous chemicals PA2716 Pharmaceutical chemicals and preparations PA2717 Pharmaceutical chemicals and preparations PA2718 Pharmaceutical chemicals and preparations PA2719 Pharmaceutical chemicals and preparations PA2719 PA2719 Pharmaceutical chemicals and preparations PA2719 PA2719 Pharmaceutical chemicals and preparations PA2719 PA2719 Pharmaceutical chemicals PA2719 PA2719 Pharmaceutical chemicals PA2719 PA2719 Pharmaceutical chemicals PA2710 Pharmaceutical chemicals PA2719 Pharmaceutical chemicals PA2710 Pharmaceutical chemicals PA2710 Pharmaceutical chemicals PA2710 Pharmaceutical chemicals PA2711 Pharmaceutical chemicals				Spinning and doubling on the cotton and flax system
PA2712 Miscellaneous chemicals PA272 Parameaeutical chemicals and preparations PA416 Rope, twine and net PA4171 All Hosiery and other knitted goods PA4171 All Hosiery and other knitted goods PA4172 All Hosiery and other knitted goods PA4173 All Hosiery and other knitted goods PA4174 All Lace PA478 Synthetic rebor PA478 Synthetic rebor PA478 Synthetic rebor PA4796 Synthetic rebor PA4797 Synthetic rebor PA4797 Synthetic rebor PA4797 Synthetic rebor PA4798 Synthetic rebor PA4798 Synthetic rebor PA4798 Synthetic rebor PA4799 S				
PA273 Pharmaceutical chemicals and preparations PA416 Rope, twine and net PA273 Paint PA274 PA275 Paint PA275 Paint PA276 PA276 PA276 PA276 PA2776 PA2776 PA2776 PA2776 PA2776 PA2776 PA2777 PA				
PA2175 Soap and detergents PA218 Lace Synthetic reisins and plastics materials and PA219 Dyestuffs and pigments PA229 Dyestuffs and pigment pigment PA229 Dyestuffs Dyestuf	A272	Pharmaceutical chemicals and preparations	PA416	Rope, twine and net
PA275 Soap and detergents PA276 Synthetic resiss and plastics materials and synthetic rubber PA277 Vestuffs and pigments PA278 Synthetic rubber PA279 PA279 Synthetic resiss and plastics materials and synthetic rubber PA279 PA279 Synthetic rubber PA279 PA279 Synthetic rubber				
PA279 Synthetic reisins and plastics materials and synthetic rubber of partitions of the provided and provide				
synthetic rubber PA277 Dyestuffs and pigments PA278 Fertilizers FA279.1 Polishes FA279.2 Formulated adhesives, gelatine, etc. FA279.3 Formulated pesticides, etc. FA279.3 Formulated pesticides, etc. FA279.4 Formulated pesticides, etc. FA279.5 Formulated pesticides, etc. FA279.6 Surgical bandages, etc. FA279.7 Protographic chemical materials Iron and steel (general) For and ste	A276	Synthetic resins and plastics materials and		
PA279.1 Polishes PA279.2 Formulated adhesives, gelatine, etc. PA279.3 Explosives and fireworks PA279.3 Explosives and fireworks PA279.4 Formulated pesticides, etc. PA279.5 Formulated pesticides, etc. PA279.6 Surgical bandages, etc. PA279.7 Printing ink PA279.7 Printing ink PA279.7 Protographic chemical materials Iron and steel (general) PA311 Leather (tanning and dressing) and fellmor PA312 Iron and steel (general) PA313 Iron and steel (general) PA314 Iron and steel (general) PA315 Iron and steel (general) PA316 Iron castings, etc. PA317 Protographic chemical materials PA318 Iron castings, etc. PA319 Protographic chemical materials PA319 Iron castings, etc. PA319 Protographic chemical materials PA319 Iron castings, etc. PA329 Protographic and other copper alloys PA329 Iron castings, etc. PA329 Protographic and earth-moving equipment PA329 Protographic and accessories PA330 Iron protographic and accessories PA330 Iron protographic and accessories PA331 Iron and steel (general) PA331 Verse PA332 Iron and steel (general) PA333 Iron and steel (general) PA334 Iron and steel (general) PA335 Iron and steel (general) PA336 Iron castings, etc. PA346 Iron castings, etc. PA441 Weatherproof outerwear PA442 Wen's and boys' failored outerwear PA442 Wen's and boys' failored outerwear PA443 Wen's and boys' failored outerwear PA444 Overalls and men's shirts, underwear, etc. PA445 Overalls and men's shirts, underwear, etc. PA446 Iron castings, etc. PA447 Overalls and men's shirts, underwear, etc. PA448 Iron castings, etc. PA449 Versless and men's shirts, underwear, etc. PA449 Versless and men's shirts, underwear, etc. PA449 Iron castings, etc. PA449 Versless and men's shirts, underwear, etc. PA440 Versless and men's shirts, underwear, etc. PA441 Versless and men's shirts, underwear, etc. PA441 Versless and men's shirts, underwear, etc. PA441 Versless and men's shirts, underwear, etc.		synthetic rubber		
PA279.1 Polishes PA279.2 Exponsives and fireworks PA279.3 Explosives and fireworks PA279.5 Primiting ink PA279.5 Primiting ink PA279.6 Surgical bandages, etc. PA279.6 Pa279.6 Printing ink PA279.6 Surgical bandages, etc. PA279.7 Photographic chemical materials PA311 Iron and steel (general) PA312 Seel tubes PA313 Iron castings, etc. PA313 Iron castings, etc. PA313 Iron castings, etc. PA314 Iron castings, etc. PA315 Iron castings, etc. PA316 Iron castings, etc. PA317 Iron castings, etc. PA318 Iron castings, etc. PA319 Seel tubes PA319 Iron castings, etc. PA319 Iron castings, etc. PA310 Iron castings, etc. PA310 Iron castings, etc. PA311 Iron castings, etc. PA312 Iron castings, etc. PA313 Iron castings, etc. PA314 Iron castings, etc. PA315 Iron castings, etc. PA316 Iron castings, etc. PA317 Iron castings, etc. PA318 Iron castings, etc. PA319 Iron castings, etc. PA319 Iron castings, etc. PA319 Iron castings, etc. PA319 Iron castings, etc. PA310 Iron castings, etc. PA311 Iron castings, etc. PA311 Iron castings, etc. PA312 Iron castings, etc. PA313 Iron castings, etc. PA314 Iron castings, etc. PA315 Iron castings, etc. PA316 Iron castings, etc. PA317 Iron castings, etc. PA318 Iron castings, etc. PA319 Iron castings, etc. PA310 Iron castings, etc. PA311 Iron castings, etc. PA312 Iron castings, etc. PA313 Iron castings, etc. PA314 Iron castings, etc. PA315 Iron castings, etc. PA316 Iron castings, etc. PA317 Iron castings, etc. PA318 Iron castings, etc. PA319 Iron castings, etc. PA310 Iron castings, etc. PA310 Iron castings, etc. PA311			PA422.1	Household textiles and handkerchiefs
PA279.2 Formulated adhesives, gelatine, etc. PA279.3 Explosives and fireworks PA279.4 Formulated pesticides, etc. PA279.5 Printing ink PA279.6 Surgical bandages, etc. PA279.7 Printing ink PA279.1 Iron and steel (general) PA311 Iron and steel (general) PA312 Iron castings, etc. PA313 Iron castings, etc. PA329.3 Iron castings, etc. PA329.3 Iron castings, etc. PA329.3 Iron castings, etc. PA329.3 Iron castings, etc. PA321 Algorithm and aluminium alloys PA321 Algorithm and aluminium alloys PA321 Algorithm and aluminium alloys PA322 Algorithm and aluminium alloys PA323 Agricultural machinery (except tractors) PA333 Iron Castings, etc. PA334 Agricultural machinery (except tractors) PA333 Iron Castings, etc. PA333 Promps PA333 Iron Castings, etc. PA334 Agricultural machinery (except tractors) PA333 Iron Castings, etc. PA334 Agricultural machinery (except tractors) PA333 Promps PA333 Iron Promps PA334 Iron Promps PA334 Iron Promps PA334 Iron Promps PA335 Iron Promps PA336 Compressors and fluid power equipment PA336 Iron Promps PA337 Iron Promps PA338 Iron Promps PA339 Iron Castings Promps PA33	A279.1	Polishes	PA423	Textile finishing
PA279.5 Printing ink PA279.6 Surgical bandages, etc. PA279.7 Printing ink PA279.7 Printing ink PA279.7 Protographic chemical materials PA311 Iron and steel (general) PA312 Iron castings, etc. PA313 Iron castings, etc. PA314 Iron castings, etc. PA315 Iron castings, etc. PA316 Iron castings, etc. PA317 Iron castings, etc. PA318 Iron castings, etc. PA319 Iron castings, etc. PA310 Iron castings, etc. PA311 Iron castings, etc. PA312 Ir	A279.2	Formulated adhesives, gelatine, etc.	PA429.1	Asbestos
PA279.6 Printing ink PA279.6 Protographic chemical materials PA279.7 Photographic chemical materials PA311 Iron and steel (general) PA312 Seel tubes PA313 Iron castings, etc. PA313 Iron castings, etc. PA313 Iron castings, etc. PA314 Iron castings, etc. PA315 Iron castings, etc. PA316 Iron castings, etc. PA317 Miscellaneous base metals PA318 Agricultural machinery (except tractors) PA329 Opper, trass and other copper alloys PA329 Agricultural machinery (except tractors) PA331 Pumps PA331 Pumps PA333.1 Pumps PA333.2 Valves PA333.3 Compressors and fluid power equipment PA333.3 Compressors and fluid power equipment PA333.4 Iron past past past past past past past past	A279.3	Explosives and fireworks		
PA279.7 Photographic chemical materials PA311 Iron and steel (general) PA312 Steel tubes PA313 Iron castings, etc. PA313 Iron castings, etc. PA321 Aluminium and aluminium alloys PA322 Copper, brass and other copper alloys PA323 Miscellaneous base metals PA324 Miscellaneous base metals PA325 Metal-working machiner (scept tractors) PA326 Metal-working machiner (scept tractors) PA331 Agricultural machinery (except tractors) PA332 Valves PA333.1 Valves PA333.2 Valves PA333.2 Valves PA333.3 Valves PA333.3 Valves PA333.4 Industrial engines PA334 Industrial engines PA335 Extile machinery and accessories PA336 Construction and earth-moving equipment PA337 Methanical handling equipment PA339 PA339. Printing, bookbinding and paper goods machinery PA339. Printing, bookbinding and printing equipment PA349. Printing, publishing of peace and associated with printing and base to publishing printing and publishing PA349. Printing, publishing of pea	A279.5	Printing ink		
PA311 Iron and steel (general) PA312 Iron asteel (general) PA313 Iron castings, etc. PA313 Iron castings, etc. PA314 Iron castings, etc. PA321 Aluminium and aluminium alloys PA322 Copper, brass and other copper alloys PA323 Agricultural machinery (except tractors) PA324 Agricultural machinery (except tractors) PA325 Miscellaneous base metals PA326 Iron castings, etc. PA327 Agricultural machinery (except tractors) PA328 Miscellaneous base metals PA339.1 Pumps PA331 Iron and atluminium alloys PA329 Iron castings, etc. PA349 Iron casting machinery and accessories PA349 Iron casting machinery and accessories PA349 Iron casting machinery and packers PA349 I	A279.6	Surgical bandages, etc.		
PA313 Iron castings, etc. PA321 Alminium and aluminium alloys PA322 Copper, brass and other copper alloys PA323 Miscellaneous base metals PA323 Miscellaneous base metals PA324 Agricultural machinery (except tractors) PA325 Miscellaneous base metals PA326 PA327 Alves PA327 Alves PA328 Miscellaneous base metals PA329 PA445 PA446 PA449 Corsets and miscellaneous dress industries PA329 PA450 PA461				
PA313   Iron castings, etc.   PA444   Overalls and men's shirts, underwear, etc.   PA445   Overalls and men's shirts, underwear, etc.   PA446   Dresses, lingerie, infants' wear, etc.   PA449.2   Gloves   PA49.2   Gloves   PA49.2   Gloves   PA49.2   Gloves   PA49.2   Gloves   PA49.3   PA49.2   Gloves   PA49.3   PA49.2   Gloves   PA49.3   PA49.3				
PA321 Aluminium and aluminium alloys PA322 Copper, brass and other copper alloys PA323 Miscellaneous base metals PA331 Agricultural machinery (except tractors) PA332 Miscellaneous base metals PA333. Pumps PA333. Pumps PA333. Pumps PA333. Pumps PA333. Compressors and fluid power equipment PA334. Textile machinery and accessories PA335 Textile machinery and accessories PA336 Construction and earth-moving equipment PA337 Mechanical handling equipment PA338. Printing, bookbinding and paper goods machinery PA339. Printing, bookbinding and paper goods machinery PA339. Printing, bookbinding and paper goods machinery PA339. Scales and weighing machinery and portable power tools PA339. Food and drink processing machinery and packaging and bottling machinery PA339. Processing machinery and packaging and bottling machinery PA3410 Food and drink processing machinery PA3411 Industrial (including process) plant and steelwork Ordnance and small arms PA3420 Precision chains and other bearings PA3431 Patches and clocks PA3432 Scientific and industrial instruments and systems PA3434 Scientific and industrial instruments and systems PA3436 Scientific and industrial instruments and systems PA	A313	Iron castings, etc.		
PA323 Miscellaneous base metals Agricultural machinery (except tractors) PA331 Pa332 Metal-working machine tools PA333. Pumps PA3331 Pumps PA3332 Valves PA333. Compressors and fluid power equipment PA333 Compressors and fluid power equipment PA334 Detailed and page gould press PA335 Textile machinery and accessories PA336 Construction and earth-moving equipment PA337 Mechanical handling equipment PA338 Office machinery PA339. Printing, bookbinding and paper goods machinery PA339. Printing, bookbinding and paper goods machinery PA339. Printing, bookbinding and paper goods machinery PA339. Scales and weighing machinery and packaging and bottling machinery and packaging and bottling machinery PA339. Food and drink processing machinery and packaging and bottling machinery PA339. Miscellaneous (non-electrical) machinery PA3410 Pa481 Determined and stellaneous (non-electrical) machinery PA3411 Pada Pada Pada Pada Pada Pada Pada Pa	A321	Aluminium and aluminium alloys		Dresses, lingerie, infants' wear, etc.
PA331 Agricultural machinery (except tractors) PA332 Metal-working machine tools PA333.1 Pumps PA333.2 Valves PA333.2 Valves PA333.3 I Pumps PA333.3 I Pumps PA333.4 Industrial engines PA334 Industrial engines PA335 Compressors and fluid power equipment PA336 Compressors and fluid power equipment PA337 Mechanical handling equipment PA338 Compressors and fluid power equipment PA339 Mechanical handling equipment PA339 Mechanical handling equipment PA339 PA339.1 Mining machinery PA339.2 Printing, bookbinding and paper goods machinery PA339.3 Perfigerating machinery, space-heating, PA339.3 Food and drink processing machinery and postable power tools PA339.3 Food and drink processing machinery and packaging and bottling machinery and packaging products of paper and associated and palances and small arms PA349.1 Precision chains and other bearings PA349.2 Precision chains and other mechanical engineering PA351 Surgical instruments and appliances PA362 Scientific and industrial instruments and systems PA363 Lelectrical machinery PA364 Insulated wires and cables PA365 Footwear PA461.2 Building bricks and non-refractory goods PA461.2 Building bricks and non-refractory goods PA462 Cement PA469.2 Miscellaneous building materials and miner PA477 PA477 Bedding. Europhy PA478 Wooden containers and baskets PA479 Wooden containers and baskets PA479 PA482.1 Cardboard boxes, cartons and fibre-board pA482.1 PA483 PA484.2 Miscellaneous manufactured stationery PA484.2 Miscellaneous manufactured stationery PA485 PA486 PA				
PA332 Metal-working machine tools PA333.1 Valves PA333.2 Valves PA333.2 Valves PA333.2 Valves PA333.3 Compressors and fluid power equipment PA334 Industrial engines PA335 Textile machinery and accessories PA336 Textile machinery and accessories PA337 Mechanical handling equipment PA338 Office machinery PA339.1 Mining machinery PA339.2 Printing, bookbinding and paper goods machinery PA339.3 Food and air-conditioning equipment PA339.3 Scales and weighing machinery and portable power tools PA339.7 Food and drink processing machinery and portable power tools PA339.9 Miscellaneous (non-electrical) machinery PA339.9 Miscellaneous (non-electrical) machinery PA339.1 Ball, roller, plain and other bearings PA349.2 Precision chains and other mechanical engineering PA359 Surgical instruments and appliances PA361 Electrical machinery PA363 Surgical instruments and appliances PA363 Surgical instruments and appliances PA363 Felegraph and telephone apparatus.and equipment PA364 Rafio and electronic components PA365 Felegraph and telephone apparatus.and equipment PA366 Felectronic componetrs PA366 Felectronic computers PA367 Refractory goods PA461.1 Refractory goods PA461.2 Refractory goods PA462 Cement PA469.2 Miscellaneous building materials and miner PA469.2 Miscellaneous defining machinery PA471 Timber PA471 Timber PA472 Wooden containers and baskets PA479 Miscellaneous wood and cork manufacture PA481.1 Toys gamer and board PA482.1 Pake Refrigeral part and other bearings PA483.2 Miscellaneous manufactures of paper and basciated PA485 Pa489.1 Toys, gam			PA449.1	Gloves
PA333. Valves PA333. Compressors and fluid power equipment PA334 Industrial engines PA336 Textile machinery and accessories PA337 Mechanical handling equipment PA338 Office machinery PA339. Printing, bookbinding and paper goods machinery PA339. Printing, bookbinding and paper goods machinery PA339. Printing, bookbinding and paper goods machinery PA339. Scales and weighing machinery and portable power tools PA339. Food and drink processing machinery and packaging and bottling machinery PA339. Miscellaneous (non-electrical) machinery PA341 Industrial (including process) plant and steelwork PA349. Precision chains and other bearings PA349. Precision chains and other mechanical engineering PA351 Scientific and industrial instruments and systems PA352 Surgical instruments and appliances PA353 Scientific and industrial instruments and systems PA353 Scientific and industrial instruments and systems PA354 Scientific and industrial instruments and systems PA355 Pa365 Gramophone records and tape recordings PA366 Radio and electronic components PA366 Radio, adar and electronic capital goods PA366 Radio, adar and electronic capital goods PA367 Radio and electronic capital goods PA368 Refrigerating machinery PA471 Timber PA471 Timber PA472 Dimiting and publistery PA473 Bedding, etc. PA474 Wooden containers and baskets PA479 Miscellaneous wood and cork manufacture PA482. Cardboard boxes, cartons and fibre-board pakes and bording products of paper and basciated Manufactured stationery PA482. Packaging products of paper and bering pakes and brooms PA361 Protographic and document copying equipment PA481 Willcoverings PA482 Protographic and document copying equipment PA482 Protographic and document copying equipment PA483 Protographic and packaging products of paper and bering packaging products of	A332	Metal-working machine tools	PA450	Footwear
PA333.3 Compressors and fluid power equipment Industrial engines PA463 Industrial engines PA463 Cement PA463 Cement PA463 Cement PA463.3 Construction and earth-moving equipment PA473.3 Construction and earth-moving equipment PA473.3 Mechanical handling equipment PA473.3 Mechanical handling equipment PA473.3 Mining machinery PA473.3 Mining machinery PA473.3 Mining machinery PA473.3 Mining machinery PA473.3 PA393. Refrigerating machinery, space-heating, ventilating and air-conditioning equipment PA474 Seales and weighing machinery and portable power tools PA475 PA475 Wooden containers and baskets PA475 Wooden containers and baskets PA476 PA476 PA476 PA477 Miscellaneous wood and cork manufacture PA477 PA477 PA477 PA477 PA477 PA477 PA478 PA479	A333.1	Pumps	PA461.1	Refractory goods
Industrial engines PA335   Industrial engines PA336   Construction and earth-moving equipment PA337   Mechanical handling equipment PA338   Construction and earth-moving equipment PA339   Mechanical handling equipment PA339   Printing, bookbinding and paper goods machinery PA339   Printing, poblishing machinery and portable power tools PA339   Proof and drink processing machinery and power tools PA339   Proof and drink processing machinery and power tools PA339   Proof and drink processing machinery and power tools PA339   Proof and drink processing machinery and power tools PA339   Proof and drink processing machinery and power tools PA339   Proof and drink processing machinery and power tools PA339   Proof and drink processing machinery and power tools PA339   Proof and drink processing machinery and power tools PA339   Proof and drink processing machinery and power tools PA339   Proof and drink processing machinery and power tools PA339   Proof and drink processing machinery and power tools PA339   Proof and drink processing machinery and power tools PA339   Proof and drink processing machinery and power tools PA339   Proof and drink processing machinery and power tools PA339   Proof and drink processing machinery and power tools PA349   Previous and power tools PA349   Previous and power tools PA349   Proof and drink processing machinery and power tools PA349   Proof and drink processing machinery and power tools PA349   Proof and drink processing machinery and power tools PA349   Proof and tool and drink processing machinery and power tools PA349   Proof and tool and	A333.3	Compressors and fluid power equipment	PA461.2	Building bricks and non-refractory goods
PA335 Textile machinery and accessories Construction and earth-moving equipment Mechanical handling equipment PA337 Mechanical handling equipment PA338 Office machinery PA339. Office machinery PA339. Printing, bookbinding and paper goods machinery PA339. Printing, bookbinding and paper goods machinery PA339. Refrigerating machinery, space-heating, ventilating and air-conditioning equipment PA339. Scales and weighing machinery and portable power tools PA339. Food and drink processing machinery and packaging and bottling machinery PA339. Miscellaneous wood and cork manufacture power tools PA339. Miscellaneous wood and cork manufacture power tools PA349. Miscellaneous wood and cork manufacture PA481 Paper and board PA482. Cardboard boxes, cartons and fibre-board in PA482. Cardboard boxes, cartons and fibre-board in PA482. Packaging products of paper and associated PA349. Ball, roller, plain and other mechanical engineering PA349. Precision chains and other mechanical engineering PA349. Scientific and industrial instruments and systems PA353 Surgical instruments and appliances PA354 Scientific and industrial instruments and systems PA355 Surgical instruments and appliances PA356 Scientific and industrial instruments and systems PA356 Scientific are instruments PA357 Surgical instruments and appliances PA358 Scientific and industrial instruments and systems PA359 Surgical instruments and appliances PA350 Surgical instruments and appliances PA351 Surgical instruments and appliances PA352 Surgical instruments and appliances PA353 Surgical instruments and appliances PA358 Scientific and industrial instruments and systems PA359 Surgical instruments and appliances PA350 Surgical instruments and appliances PA351 Surgical instruments and appliances PA352 Surgical instruments and appliances PA353 Surgical instruments and appliances PA354 Scientific and industrial instruments PA355 Surgical instruments and appliances PA356 Surgical instruments and appliances PA351 Surgical instruments and appliances PA352 Surgical instrument	A334	Industrial engines		
PA450.2 Miscellaneous building materials and miner PA471 Timber PA471 Timber PA472 Furniture and upholstery PA473.39.1 Mining machinery PA473.39.2 Printing, bookbinding and paper goods machinery PA473 Refrigerating machinery, space-heating, ventilating and air-conditioning equipment PA475 Wooden containers and baskets PA476 Paper and board PA482.1 Cardboard boxes, cartons and fibre-board packaging and bottling machinery Industrial (including process) plant and steelwork Ordnance and small arms PA484.1 Wallcoverings PA484.1 Wallcoverings PA484.1 Wallcoverings PA485.2 Precision chains and other mechanical engineering PA485 Scientific and industrial instruments and systems Scientific and industrial instruments and systems Scientific and industrial instruments and systems PA486.1 Insulated wires and cables Telegraph and telephone apparatus.and equipment PA361 Radio and electronic components PA361 Gramophone records and tape recordings PA601 Gas PA602 Electricity PA601 Radio, radar and electronic capital goods		Textile machinery and accessories		Cement
PA339. Office machinery PA339.1 Mining machinery PA339.2 Printing, bookbinding and paper goods machinery PA339.3 Refrigerating machinery, space-heating, ventilating and air-conditioning equipment PA339.5 Scales and weighing machinery and portable power tools PA339.7 Food and drink processing machinery PA341 Industrial (including process) plant and steelwork PA349.1 Industrial (including process) plant and steelwork PA349.2 Precision chains and other bearings PA359.3 Surgical instruments and appliances PA350 Surgical instruments and appliances PA351 Insulated wires and cables PA361 Insulated wires and cables PA365.1 Gramophone records and tape recordings PA366.1 Gramophone records and tape recordings PA366.1 Broadcast receiving and sound reproducing equipment PA366.1 Gramophone records and tape recordings PA367 Radio, radar and electronic capital goods PA367 Radio, radar and electronic capital goods PA367 Radio, radar and electronic capital goods PA367 PA361.0 Service and upholstery PA471 Enuriture and upholstery PA473 Bedding, etc. PA473 Bedding, etc. PA474 Shop and office fitting Wooden containers and upholstery PA475 Mooden containers and baskets PA476 Moscellaneous wood and cork manufacture PA487 Packaging products of paper and associated PA488.1 Cardboard boxes, cartons and fibre-board packaging and bottling machinery PA481 Mallcoverings PA482.1 Wallcoverings PA482.1 Wallcoverings PA484.2 Wallcoverings PA485 Printing, publishing of newspapers and periodecing equipment PA485 Printing, publishing of newspapers and periodecing equipment PA486 Printing and publishing PA487 PA488 Printing, publishing of newspapers and periodecing equipment PA489 P	A336 A337	Construction and earth-moving equipment	PA469.1	Abrasives
PA339.1 Mining machinery PA339.2 Printing, bookbinding and paper goods machinery PA339.3 Refrigerating machinery, space-heating, ventilating and air-conditioning equipment PA339.5 Scales and weighing machinery and portable power tools PA339.6 Food and drink processing machinery PA339.9 Miscellaneous (non-electrical) machinery PA341 Industrial (including process) plant and steelwork PA342 Ordnance and small arms PA342.1 Cordnance and small arms PA343.2 Precision chains and other bearings PA351 Watches and clocks PA352 Watches and clocks PA353 Scientific and industrial instruments and systems PA354 Insulated wires and cables PA355 Insulated wires and cables PA365 Insulated wires and cables PA366 Insulated wires and tables PA366 Insulated wires and sound reproducing equipment PA366 Insulated components PA367 Radio, radar and electronic capital goods PA367 Radio, radar and electronic capital goods PA367 Radio, radar and electronic capital goods PA368 Refrigerating machinery paded in padeding, padeding, etc. PA473 Bedding, etc. PA474 Shop and office fitting Wooden containers and baskets Moscellaneous wood and cork manufacture PA479 Moscellaneous wood and cork manufacture PA480 Miscellaneous wood and cork manufacture PA481 PA479 Moscellaneous wood and cork manufacture PA482 Packaging products of paper and associated Mall Cardboard boxes, cartons and fibre-board paper and board PA482 Packaging products of paper and associated Mall Cardboard boxes, cartons and fibre-board paper and board PA482 Packaging products of paper and associated Mall Cardboard boxes, cartons and fibre-board paper and board PA482 Packaging products of paper and associated Mall Cardboard boxes, cartons and fibre-board paper and board PA482 Packaging products of paper and associated Mall Cardboard boxes, cartons and fibre-board paper and bardenery PA482 Packaging products of paper and bardenery PA483 Packaging products of paper and bardenery PA484 Insulate with packaging products of paper and bardenery PA484 Insulate with packaging products of pape	A338	Office machinery	PA469.2 PΔ471	
PA339.3 Hefrigerating machinery, space-heating, ventilating and air-conditioning equipment Scales and weighing machinery and portable power tools PA339.7 Food and drink processing machinery and packaging and bottling machinery PA339.9 Miscellaneous (non-electrical) machinery PA339.1 Industrial (including process) plant and steelwork PA341 Ordnance and small arms PA342 Ordnance and small arms PA343.9 Precision chains and other bearings PA349.2 Watches and clocks PA353 Surgical instruments and appliances PA354 Secientific and industrial instruments and systems PA355 Electrical machinery PA362 Insulated wires and cables PA363 Fedator or producing equipment PA365.2 Broadcast receiving and sound reproducing equipment PA366 Electronic computers PA366 Electronic computers PA367 Shop and office fitting PA475 Wooden containers and baskets PA475 Miscellaneous wood and cork manufacture PA481 Paper and board PA482.1 Cardboard boxes, cartons and fibre-board pakers. PA482.2 Packaging products of paper and associated Manufactured stationery PA482.3 Manufactured stationery PA484.1 Wallcoverings PA484.2 Miscellaneous manufactures of paper and beared. PA485 Printing, publishing of newspapers and periodicing printing and publishing PA491 Rubber PA491 Rubber PA492 Linoleum, plastics floor-covering, leatherol PA493 Sports equipment PA496 Miscellaneous stationers' goods PA496 Plastics products PA499.1 Musical instruments PA499.1 Musical instruments PA499.2 Miscellaneous manufacturing industries PA499.3 Miscellaneous manufacturing industries PA499.4 Miscellaneous manufacturing industries PA499.5 Miscellaneous manufacturing industries PA499.6 Electricity PA602 Electricity PA603 Supmany tables	A339.1	Mining machinery		
ventilating and air-conditioning equipment PA339.5 Scales and weighing machinery and portable power tools PA339.7 Food and drink processing machinery and packaging and bottling machinery PA339.9 Miscellaneous (non-electrical) machinery PA341 Industrial (including process) plant and steelwork PA349.1 Industrial (including process) plant and steelwork PA349.1 Precision chains and other bearings PA351 Photographic and document copying equipment PA352 Surgical instruments and appliances PA363 Telegraph and telephone apparatus.and equipment PA366 Electricial machinery PA366 Electronic computers PA366 Electronic computers PA367 Wooden containers and baskets Miscellaneous wood and cork manufacture PA481 Paper and board PA482.1 Cardboard boxes, cartons and fibre-board paper and associated Manufactured stationery PA482.1 Wallcoverings PA483 Manufactured stationery PA484.1 Wallcoverings PA484.2 Miscellaneous manufactures of paper and be PA485.1 Printing, publishing of newspapers and periogeneral printing and publishing PA489 Printing, publishing of newspapers and periogeneral printing and publishing PA489 Printing, publishing of newspapers and periogeneral printing and publishing PA489 Printing, publishing of newspapers and periogeneral printing and publishing PA489 Pa489 Printing, publishing of newspapers and periogeneral printing and publishing PA489 Printing, publishing of newspapers and periogeneral printing and publishing PA489 Printing, publishing of newspapers and periogeneral printing and publishing PA489 Printing, publishing of newspapers and periogeneral printing and publishing PA489 Printing, publishing of newspapers and periogeneral printing and publishing PA489 Printing, publishing of newspapers and periogeneral printing and publishing PA489 Printing, publishing of newspapers and periogeneral printing and publishing PA489 Printing, publishing of newspapers and periogeneral printing and publishing PA489 Printing, publishing PA489 Printing, publishing PA489 Printing, publishing PA489 Printing, publishing PA489	A339.2	Printing, bookbinding and paper goods machinery		
PA339.5 Scales and weighing machinery and portable power tools power tools PA339.7 Food and drink processing machinery and packaging and bottling machinery PA482.1 Cardboard boxes, cartons and fibre-board packaging and bottling machinery PA482.2 Packaging products of paper and associated PA482.1 Industrial (including process) plant and steelwork Ordnance and small arms PA484.1 Industrial (including process) plant and steelwork Ordnance and small arms PA484.2 Miscellaneous manufactures of paper and board PA482.2 Packaging products of paper and associated PA483.1 Wallcoverings PA484.2 Miscellaneous manufactures of paper and board PA482.2 Packaging products of paper and associated PA483.1 Wallcoverings PA484.2 Miscellaneous manufactures of paper and board PA482.2 Packaging products of paper and associated PA483.1 Wallcoverings PA483.1 Wallcoverings PA484.2 Miscellaneous manufactures of paper and board PA484.2 Wallcoverings PA484.1 Mallcoverings PA484.2 Miscellaneous manufactures of paper and board PA484.2 Wallcoverings PA484.1 Mallcoverings PA484.1 Discussion products PA499.1 Pastics floor-covering, leathered PA491 Rubber PA491 Toys, games and children's carriages PA494.1 Miscellaneous stationers' goods PA496.1 PA499.1 Musical instruments PA499.1 Musical	A339.3	ventilating and air-conditioning equipment		
PA339.7 Food and drink processing machinery and packaging and bottling machinery packaging products of paper and associated packaging products of packaging products	A339.5	Scales and weighing machinery and portable		
packaging and bottling machinery PA439.9 Miscellaneous (non-electrical) machinery PA4341 Industrial (including process) plant and steelwork PA342 Ordnance and small arms PA349.1 Ball, roller, plain and other bearings PA349.2 Precision chains and other mechanical engineering PA351 Photographic and document copying equipment PA352 Surgical instruments and appliances PA353 Scientific and industrial instruments and systems PA364 Electrical machinery PA365 Telegraph and telephone apparatus.and equipment PA366.1 Gramophone records and tape recordings PA367 Electronic computers PA368 Electronic computers PA368 Electronic computers PA369 Pastics products of paper and associated Manufactured stationery PA481.1 Wallcoverings PA484.2 Miscellaneous manufactures of paper and associated Manufactured stationery PA484.1 Wallcoverings PA488.2 Printing, publishing of newspapers and periodic paper and be printing, publishing of newspapers and periodic paper and believe in the paper and believe in the paper and steelwork PA484.2 Miscellaneous manufactures of paper and associated Manufactured stationery PA484.1 Wallcoverings PA484.2 Miscellaneous manufactures of paper and believe in the paper and b		power tools	PA481	Paper and board
PA339.9 Miscellaneous (non-electrical) machinery PA481 Industrial (including process) plant and steelwork PA341 Industrial (including process) plant and steelwork PA342.2 Ordnance and small arms PA484.2 Miscellaneous manufactures of paper and be PA484.2 Printing, publishing of newspapers and periodic process PA485.2 Precision chains and other mechanical engineering PA489 General printing and publishing PA481 Rubber PA481 Rubber PA491 Rubber PA	A339.7	Food and drink processing machinery and	PA482.1	Cardboard boxes, cartons and fibre-board packing ca
PA441 Industrial (including process) plant and steelwork Ordnance and small arms PA342 Ordnance and small arms PA342 Precision chains and other bearings PA349.1 Precision chains and other mechanical engineering PA351 Photographic and document copying equipment PA352 Watches and clocks PA493 Surgical instruments and appliances PA353 Surgical instruments and appliances PA354 Electrical machinery PA355 Insulated wires and cables PA491 Insulated wires and cables PA493 Insulated wires and cables PA494 Insulated wires and cables PA495 Insulated wires and cables PA496 Industrial instruments and systems PA497 Insulated wires and cables PA498 Insulated wires and cables PA499 Insulated wires and telephone apparatus and equipment PA366 Insulated wires and cables PA496 Insulated wires and dother mechanical engineering PA497 Insulated wires and cables PA498 Insulated wires and cables PA499 Insulated wires and telephone apparatus and equipment PA366 Insulated wires and cables PA499 Insulated wires and telephone apparatus and equipment PA366 Insulated wires and cables PA499 Insulated wires and telephone apparatus and equipment PA366 Insulated wires and cables PA499 Insulated wires and telephone apparatus and equipment PA496 Insulated wires and cables PA497 Insulated wires and telephone apparatus and electronic components PA498 Insulated wires and cables PA499 Insulated wires and telephone apparatus and electronic components PA499 Insulated wires and telephone apparatus and electronic components PA499 Insulated wires and telephone apparatus and electronic components PA499 Insulated wires and telephone apparatus and electronic components PA499 Insulated wires and telephone apparatus and electronic components PA490 Insulated wires and telephone apparatus and electronic components PA490 Insulated wires and telephone apparatus and electronic components PA490 Insulated wires and telephone apparatus and electronic components PA490 Insu	A339.9	Miscellaneous (non-electrical) machinery	PA482.2	Packaging products of paper and associated materials
A342 Ordnance and small arms A342 Ordnance and small arms A349.1 Ball, roller, plain and other bearings A349.2 Precision chains and other mechanical engineering A351 Photographic and document copying equipment A352 Watches and clocks A353 Surgical instruments and appliances A354 Scientific and industrial instruments and systems A365 Electrical machinery A362 Insulated wires and cables A363 Telegraph and telephone apparatus.and equipment A366.1 Gramophone records and tape recordings A365.2 Gramophone records and tape recordings A366 Electronic computers A367 Electronic computers A368 Electronic computers A368 Electronic computers A369 Electronic computers A369 Electronic computers A360	4341	Industrial (including process) plant and steelwork		Wallcoverings
PA349.1 Ball, roller, plain and other bearings PA349.2 Precision chains and other mechanical engineering PA351 Photographic and document copying equipment PA352 Watches and clocks PA353 Surgical instruments and appliances PA354 Scientific and industrial instruments and systems PA365 Electrical machinery PA366 Insulated wires and cables PA368 Telegraph and telephone apparatus.and equipment PA366.1 Gramophone records and tape recordings PA366.2 Brushes and children's carriages PA497 PA498 Sports equipment PA498 Plastics products PA499 Plastics products PA490 Plastics products P	4342	Ordnance and small arms	PA484.2	Miscellaneous manufactures of paper and board
Photographic and document copying equipment Watches and clocks PA352 Watches and clocks Surgical instruments and appliances PA353 PA354 Scientific and industrial instruments and systems PA361 PA362 PA361 PA366 PA362 PA363 Telegraph and telephone apparatus.and equipment PA366 PA363 Radio and electronic components PA366.1 Gramophone records and tape recordings PA366.2 PA366 PA3	4349.1 4349.2	Ball, roller, plain and other bearings	PA485	Printing, publishing of newspapers and periodicals
Vatches and clocks PA492 Linoleum, plastics floor-covering, leathercl PA493 Brushes and brooms PA494.1 Toys, games and children's carriages PA494.3 Sports equipment PA362 Insulated wires and cables PA495 PA496 Plastics products equipment PA366.1 Gramophone records and tape recordings PA366.2 Broadcast receiving and sound reproducing PA366 Electronic computers PA367 PA368 Electronic computers PA368 Electronic computers PA369 Electronic computers PA369 Electronic computers PA360 Water supply PA500 Supmany tables	4351	Photographic and document conving equipment		
PA493 Surgical instruments and appliances PA354 Scientific and industrial instruments and systems PA361 Electrical machinery PA362 Insulated wires and cables PA493 PA494.3 Sports equipment PA363 Telegraph and telephone apparatus.and equipment PA364 Radio and electronic components PA365.1 Gramophone records and tape recordings PA365.2 Broadcast receiving and sound reproducing equipment PA366 Electronic computers PA366 Electronic computers PA367 Radio, radar and electronic capital goods PA368 PA499.3 Brushes and brooms PA494.1 Toys, games and children's carriages PA494.3 Sports equipment PA495 Miscellaneous stationers' goods PA496 Plastics products PA499.1 Musical instruments PA499.1 Miscellaneous manufacturing industries PA500 Construction Gas Electricity PA601 Gas PA602 Electricity PA603 Water supply PA603 Supmany tables	4352	Watches and clocks	PA492	Linoleum, plastics floor-covering, leathercloth, etc.
PA361 Electrical machinery PA494.3 Sports equipment PA496 Plastics products equipment PA496 Pa365.1 Gramophone records and tape recordings PA601 Gas equipment PA602 Electronic computers PA602 Electronic computers PA602 Electronic computers PA603 Water supply PA603 Radio, radar and electronic capital goods PA602 Supprage tables	4353	Surgical instruments and appliances		Brushes and brooms
PA362 Insulated wires and cables PA495 Miscellaneous stationers' goods PA363 Telegraph and telephone apparatus.and equipment PA496.1 Musical instruments PA364 Radio and electronic components PA499.2 Miscellaneous manufacturing industries PA365.1 Gramophone records and tape recordings PA500 Construction PA365.2 Broadcast receiving and sound reproducing equipment PA601 Gas Electronic computers PA602 Electricity PA603 Radio, radar and electronic capital goods PA1002 Supmany tables		Electrical machinery	PA494.1	Loys, games and children's carriages
PA363 Telegraph and telephone apparatus.and equipment PA496 Plastics products and many paratus.and PA496 Plastics products PA499.1 Musical instruments PA496.1 Gramophone records and tape recordings PA500 Construction PA501 Gas equipment PA601 Gas PA602 Electronic computers PA603 Electronic computers PA603	4362	Insulated wires and cables	PA495	
PA364 Radio and electronic components PA499.2 Miscellaneous manufacturing industries PA365.1 Gramophone records and tape recordings PA500 Construction PA365.2 Broadcast receiving and sound reproducing equipment PA601 Gas equipment PA602 Electronic computers PA366 Radio, radar and electronic capital goods PA601 Supmany tables	4363	Telegraph and telephone apparatus.and	PA496	Plastics products
A365.1 Gramophone records and tape recordings A365.2 Broadcast receiving and sound reproducing equipment A366 Electronic computers A367 Radio, radar and electronic capital goods A368 PA 1002 Supprage vables			PA499.1	Musical instruments
A365.2 Broadcast receiving and sound reproducing PA601 Gas equipment PA602 Electricity PA603 Water supply PA603 Radio, radar and electronic capital goods PA1002 Supmany tables	4365.1	Gramophone records and tape recordings	PA499.2	
equipment PA602 Electricity PA366 Electronic computers PA603 Water supply PA367 Radio, radar and electronic capital goods PA1002 Supplies	4365.2	Broadcast receiving and sound reproducing		
PA367 Radio, radar and electronic capital goods PA1002 Summary tables		equipment	PA602	Electricity
PA368 Electrical appliances primarily for domestic use		Electrical appliances primarily for domestic use	PA 1002	Summary tables

### PA109 MISCELLANEOUS MINING AND QUARRYING

The information in this report relates to establishments classified to the Miscellaneous mining and quarrying industry, minimum list heading 109 in the Standard Industrial Classification (revised 1968). The activities of the industry include: —

Mining or quarrying iron ore and ironstone, lead, tin and other non-ferrous metals or metalliferous ores, and alum, barytes, graphite, gypsum, fluorspar, etc. and such ancillary activities as cleaning, washing, grading, etc., normally carried out at pits and quarries; extracting and refining salt and salt processing and packing (at mine or pit).

> In interpreting the data in the tables it is essential to bear in mind the notes and definitions which commence on page (iii).

#### LIST OF CONTENTS

Table No	Title				Page
140					2
1	Output and costs, 1974–1978				2
2	Capital expenditure, 1974–1978				3
3	Stocks, 1974–1978				3
4	Analysis of establishments by size, 19	978			4-5
5	Regional distribution of employment at factor cost, 1978	, net capital expe	nditure, net outpu	t and gross value added	6
6	Percentage analysis of twelve-month ( Kingdom establishments, 1978	periods covered b	y returns received	from United	7
7	Percentage analysis of employees, by	full and part-tim	e employment and	sex, 1977	7.
8	Operating ratios, 1977–1978				8

PA109

PA109

Output and costs, 1974–1978

All United Kingdom establishments classified to the industry (a)

	Unit	1974	1975	1976	1977	1978
Enterprises	Number	78	81	74	74	72
Establishments	men "libration,	104	112	95	97	86
Sales of goods produced (b)	£ thousand	51,813	63,292	79,459	110,760	125,835
Receipts for work done and industrial ervices rendered	series and the transfer	(c)	(c)	1,079	6,765	(c)
capital goods produced for establishments' own use		1,488	1,723	1,479	1,721	2,347
lon-industrial services rendered	,,	(d)	1,902	318	933	(d)
oods merchanted or factored	"	529	604	4,055	3,013	1,609
Total sales and work done (e)	"	53,830	67,521	86,390	123,192	129,790
alue of outward transport on oods sold:—						
by establishments' own staff	"	740	756	898	1,036	1,126
by other organisations		6,086	5,994	7,047	15,403	11,622
acrease during the year, goods on and for sale	<i>,</i> ,	-246	995	1,437	<b>–510</b>	-444
Gross output	"	60,411	75,266	95,772	139,121	142,094
rchases of materials for use in pro- action, and packaging and fuel	"	16,736	21,996	28,806	39,770	41,857
rchases of goods for merchanting or ctoring	,,	398	512	(f)	2,650	1,541
crease during the year, stocks of aterials, stores and fuel		1,014	1,364	648	728	1,184
ost of industrial services received	"	2,129	3,962	6,570	7,948	11,013
Net output		42,162	50,161	61,044	89,482	88,868
otal employment (g)	Thousands	4.9	5.6	5.6	6.1	5.8
Net output per head	£	8,590	8,962	10,916	14,619	15,309
yments for non-industrial services						
Hire of vehicles, plant and machinery	£ thousand	339	934	1,364	1,636	1,941
Rents of industrial and commercial buildings	,,	(h)	(h)	37	47	132
Commercial insurance premiums		370	958	707	932	1,352
Bank charges		9	14	20	50	31
Other non-industrial services	,,	7,499	7,592	9,399	18,630	15,545
ensing of motor vehicles	"	30	38	57	69	62
tes, excluding water rates		565	818	793	703	1,060
Gross value added at factor cost	" -	33,350	39,807	48,667	67,414	68,744
Gross value added at factor cost per head	£	6,795	7,112	8,703	11,014	11,842

(a) Including estimates for establishments not making satisfactory returns, non-response and establishments not selected for the Census. Satisfactory returns accounted for 88 per cent of employment within the industry.

(b) Sales of products are valued at ex-quarry or ex-works prices, the cost of transport being shown separately.

(c) Included in sales of goods produced.

(d) Included in Capital goods produced for establishments' own use.

(e) Details of manufacturers' sales of certain principal products are published regularly in Business Monitors PQ109.2 and 109.3. Correlative figures for the whole industry are not yet available.

(f) Included in Purchases of materials for use in production, and packaging and fuel.

(g) Average number employed, including full and part-time employees (see table 7) and working proprietors.

(h) For 1974 and 1975 rents of industrial and commercial buildings were not recorded separately, but included in hire of vehicles, plant and machinery.

TABLE 2

Capital expenditure, 1974–1978
All United Kingdom establishments classified to the industry (a)(b)

£ thousand

	1974	1975	1976	1977	1978
and and buildings					
New building work	2,623	1,799	4,226	3,968	4,549
Land and existing buildings					
Acquisitions	437	102	36	830	114
Disposals	200	85	2	34	(c)
/ehicles					
Acquisitions	734	486	436	2,041	940
Disposals	46	64	39	505	68
Plant and machinery					
Acquisitions	9,138	12,004	13,997	12,970	16,229
Disposals	1,525	617	318	1,339	136
Total net capital expenditu	re 11,159	13,624	18,336	17,931	21,629

(a) Including estimates for establishments not making satisfactory returns, non-response and establishments not selected for the Census.

(b) Capital expenditure in respect of manufacturing establishments where production had not commenced before the end of the year, is included.

(c) Included in Land and existing buildings acquisitions.

TABLE 3

Stocks 1974—1978 All United Kingdom establishments classified to the industry (a)

33.2				
£	th	0	11	ca
-	CII	U	u	30

	1974	1975	1976	1977	1978		
	res g brew	1.00E,8	Increase	ence acce	97	Value at end of year	
Materials, stores and fuel	1,014	1,364	648	728	1,184	7,170	
Goods on hand for sale	-246	995	1,437	-510	-444	3,342	
Total	768	2,359	2,085	219	740	10,512	

(a) Including estimates for establishments not making satisfactory returns, non-response and establishments not selected for the Census.

Analysis of establishments by size, 1978
All United Kingdom establishments classified to the industry (a)

Size group	Estab- lish-	Enter- prises	Employme	ent		Wages and sa	laries (f)		
(b)	ments	(c)							
			Total (d)	Opera- tives	Others (e)	Operatives		Others (e)	
						Total	per head	Total	per head
	Number	Number	Number	Number	Number	£ thousand	£	£ thousand	£
1-10	44	40	179)						
11–19	16	16	218)	891	168	4,413	4,953	818	4,869
20-99	14	10	687)						
100–299	6	5	948	754	193	3,564	4,727	1,046	5,420
300-499	3	3	1,135	886	249	4,326	4,883	1,291	5,185
500 and over	3	3	2,638	2,144	494	12,011	5,602	3,455	6,994

Total	86	72	5,805	4,675	1,104	24,314	5,201	6,609	5,987

<sup>(</sup>a) Including estimates for establishments not making satisfactory returns, non-response and establishments not selected for the Census.

Total sales and work done (g)	Gross output	Net output		Gross value added at factor cost	Net capital expenditure (h)	Total stocks and work in progress at end of year	
		Total	per head	Total	per head		
£ thousand	£ thousand	£ thousand	£	£ thousand	£	£ thousand	£ thousand
21,277	24,539	17,156	15,827	(j)	(j)	3,370	1,788
20,371	22,290	14,248	15,030	24,473(j)	12,044(j)	6,113	1,597
16,338	16,452	8,988	7,919	7,727	6,808	1,554	1,533
71,805	78,814	48,476	18,376	36,543	13,853	10,592	5,595

129,790	142,094	88,868	15,309	68,744	11,842	21,629	10,512

 <sup>(</sup>f) The cost of employers' contributions to national insurance, pensions and welfare schemes and the running costs of canteens, is estimated for the industry at £5,586 thousand.
 (g) Sales of goods produced, capital goods manufactured and buildings constructed by establishments for their own use, work done, industrial and non-industrial services rendered and merchanted goods.

<sup>(</sup>b) Average number employed, including full and part-time employees (see table 7) and working proprietors.

<sup>(</sup>c) The sum of the figures for the size groups may exceed the total for the industry because some enterprises control establishments in more than one size group.

<sup>(</sup>d) Including working proprietors.

<sup>(</sup>e) Administrative, technical and clerical employees.

industrial and non-industrial services rendered and merchanted goods.

<sup>(</sup>h) New building work plus acquisitions less disposals of land and existing buildings, vehicles and plant and machinery.

<sup>(</sup>j) Gross value added data relate to establishments employing 1-299.

Regional distribution of employment, net capital expenditure, net output and gross value added at factor cost, 1978 All United Kingdom establishments classified to the industry (a)

Area	Total employment (b)		Net capital expenditure	Net capital expenditure (c)		Gross value added at factor cost (d)	Gross value added at factor cost returned by establishments with 80 per cent or more of their employment in the region as a proportion of total gross value added at factor cost in the region
	Thousands	per cent of United Kingdom	£ thousand	per cent of United Kingdom	£ thousand	£ thousand	percentage
Standard regions of England							
North	1.6	27.4	7,752	35.8	*	*	*
Yorkshire and Humberside	0.3	4.9	2,545	11.8	2,001	1,476	46.3
East Midlands	0.8	13.0	1,518	7.0	8,056	6,703	59.4
East Anglia	*	*	*		*	*	•
South East	*	*	*	*	*	*	*
South West	1.5	26.0	1,912	8.8	14,895	13,315	93.4
West Midlands	0.1	2.1	285	1.3	1,702	1,420	52.3
North West	1.3	23.2	6,662	30.8	*	•	*
England	5.7	98.0	21,000	97.1	83,791	65,353	
Wales	-	0.6	123	0.6	227	187	-
Scotland	*	*	*	*	*	*	*
Great Britain	•	*	*	*	*	*	
Northern Ireland	*	*	*	*	*	*	*
United Kingdom	5.8	100.0	21,629	100.0	88,868	68,744	

(a) Including estimates for establishments not making satisfactory returns, non-response and establishments not selected for the Census.

(b) Average number employed, including full and part-time employees (see table 7) and working proprietors.

(c) New building work plus acquisitions less disposals of land and existing buildings, vehicles and plant and machinery.

(d) Where a census return covered addresses in two or more regions, an estimate of the net output attributable to each address was made by assuming that net output was proportionate to employment. An estimate for each region was obtained by aggregating estimates of net output for addresses located in that region. Gross value added at factor cost is treated similarly.

TABLE

Percentage analysis of twelve-month periods covered by returns received from United Kingdom establishments, 1978

Accoun	ting year ended		Percentage of total returns received	Percentage o	f total number employed
		925,085	per cent	per cent	
1978	April (a)		- 3	-	
	May		_	-	
	June		5.0	7.1	
	July		_	e construir de qu	
	August		_	-	
	September		5.0	0.5	
	October		-	table on second	
	November		5.0	0.7	
	December		30.0	54.6	
1979	January		-		
	February			-	
	March (b)		55.0	37.1	

(a) From 6th April.

(b) Including returns made for twelve-month period ended 1st to 5th April 1979.

#### TABLE 7

Percentage analysis of employees, by full and part-time employment and sex, 1977(a)

Sex	Full-time	Part-time per cent	All employees	
	per cent		per cent	
Male	95	-	95	
Female	4	1	. 5	

Source: Department of Employment

(a) The percentages relate to the numbers employed (excluding working proprietors) in the United Kingdom at mid-June, 1977.

TABLE 8

PA109

Operating ratios, 1977–1978
All United Kingdom establishments classified to the industry (a)

	Unit	1977	1978
Gross output per head	£	22,729	24,478
Net output per head	£	14,619	15,309
Gross value added per head	£	11,014	11,842
Gross value added as a percentage of gross output	%	48	48
Ratio of gross output to stocks		14.4	13.5
Wages and salaries as a percentage of gross value added	%	40	45
Ratio of operatives to administrative, technical and clerical employees		3.8	4.2
Wages and salaries per administrative, technical and clerical employee	£	4,837	5,987
Wages and salaries per operative	£	4,270	5,201
Net capital expenditure per head	£	2,929	3,726
Net capital expenditure as a percentage of gross value added	%	27	31

(a) Including estimates for establishments not making satisfactory returns, non-response and establishments not selected for the Census.

Produced in Wales by Her Majesty's Stationery Office Reprographic Unit, Cardiff Dd. 699517 K6 Cdf 375 8/80

NOTES

These notes give the main information needed for interpreting the figures in the industry Business Monitors: more detailed information about the census is given in a separate Business Monitor -PA 1001 (Introductory Notes) of the Report on the Census of Production, 1978.

#### GENERAL INFORMATION

Changes made for 1978

The Census for 1978 is in line with similar inquiries being conducted in other member countries of the European Economic Communities. The census differed from earlier censuses in three respects. Sampling was introduced for establishments employing 20 to 49 and a sample of smaller units was selected. A new question on the leasing of capital assets was included for 1978 only. will provide register information for use in related inquiries into leasing.

Suppression of information relating to individual undertakings

Section 9(5)(b) of the Statistics of Trade Act 1947 states - "The following provisions shall have effect with respect to any report, summary or other communication to the public of information obtained under the foregoing provisions of this Act -

in compiling any such report, summary or communication the competent authority shall so arrange it as to prevent any particulars published therein from being identified as being particulars relating to any individual person or undertaking except with the previous consent in writing of that person or the person carrying on that undertaking, as the case may be; but this provision shall not prevent the disclosure of the total quantity or value of any articles produced, sold or delivered; so, however, that before disclosing any such total the competent authority shall have regard to any representations made to them by any person who alleges that the disclosure thereof would enable particulars relating to him or to an undertaking carried on by him to he deduced from the total disclosed".

If a figure involved disclosure the contributor concerned was sometimes asked to give permission for its publication. In the majority of cases permission was given. When it was refused and where contributors were not approached the figure has been suppressed, either by combining it with other figures, or as in the regional tables, by

omitting the figure altogether.

The following symbols are used throughout the PA series of Business Monitors:

- nil or less than half the final digit shown figures cannot be shown owing to the risk of
- disclosing information about individual enterprises
- R revised

Rounding of figures

Figures in the tables have, where necessary, been rounded to the nearest final digit. Where figures have been so rounded, the sum of the constituent items may not always agree exactly with the total

Industrial classification

The United Kingdom Standard Classification (SIC) was first issued in 1948 and was subsequently revised in 1958 and 1968. It exists to promote uniformity and comparability in the official statistics of the United Kingdom.

The general principles followed are those of the International Standard Industrial Classification of all Economic Activities of the United Nations Statistical Office but the United Kingdom SIC reflects the organisation and structure of industry and trade as it exists in the United Kingdom. The SIC is a classification by activity and is not a commodity classification. However, an index of all commodity headings for which sales data are provided in the Quarterly Business Monitors, is published in Business Monitor PQ 1000.

Statistical units

The statistical unit for the purpose of the Census is the establishment which is defined in the SIC as the smallest unit which can provide the information normally required for an economic census, for example, employment, expenses, turnover, capital formation. Usually the principal activities carried on in an establishment fall within a single heading of the classification (eg steel making or sugar refining). Typically the establishment embraces all the activities carried on at a single address eg a mine or a factory, including those which are ancillary to the principal activities. Frequently distinct activities characteristic of different industries are carried on at one address, but normally these are not classified separately and the whole establishment is classified according to the main activity. If, however, the required range of data can be provided for each activity, each is taken to constitute a separate establishment. Sometimes activities which are conducted as a single business are carried on at a number of addresses. Where this is so, businesses are asked to provide the full range of information in respect of each address, whether or not the activities are different. Their activities may, however, be integrated to such an extent that they constitute a single establishment. In the latter case the establishment is defined to cover the combined activities at these addresses (termed local units). Separate figures are obtained of employment and net capital expenditure at each unit in order to compile regional tables.

Efforts are made by the Business Statistics Office (BSO) to ensure, by negotiating with respondents, that the return from an establishment does not cover local units in more than one of the countries

of the United Kingdom.

Establishments are asked to exclude from their returns particulars relating to any department not engaged in production eg merchanting, transport, warehousing, for which they keep a separate set of Transfers of goods produced to such departments are treated as sales and respondents are asked to value them as far as possible as if sold to an independent purchaser. Where separate accounts are not kept they are asked to include details of all these activities in their return. Particulars relating to head offices mainly

engaged in the administration of the production units within the scope of the census were included. Where more than one return was made the information in respect of the head office was apportioned among them.

For certain purposes in the annual censuses of production (especially the enterprise analyses of Business Monitor PA 1002) related establishments are combined. An enterprise group is defined as a business consisting of either a single establishment or two or more establishments under common ownership or control. Bringing together establishments into enterprise groups is also necessary for the purpose of ensuring that there will be no disclosure of the activities of any one enterprise group. Information about the relationship of establishments, the changing structure of groups of companies and about common ownership links is

obtained from many sources, including the Stock Exchange Year Book, company reports, press reports information supplied by individual stablishments.

the register permits a questionnaire to be sent direct to the reporting establishment on which the latter can include information relating to all the manufacturing (or local) units which it comprises. The inquiries provide a major source of information for keeping the register continuously up-to-date and act as a check on its detail and structure. for the establishments on the register making returns to the quarterly inquiries, the industrial classification is derived from an analysis of their sales of commodities and is reviewed annually. Employment data are entered on the register from returns to the annual census of production. In cases where an establishment does not make a return to these inquiries the employment data are based on information provided by the Department of Employment from the annual censuses of employment. New additions to the register are obtained from various sources including the Department Employment and HM Customs and Excise. The 1973 inance Act allows the latter to pass lists of usinesses registered for VAT to the BSO. Where ecessary details are sought directly from new nusinesses. Units which cease to trade are removed from the live register.

In recent censuses returns have been required from Il establishments employing 20 or more. For the 1978 Census in 68 selected manufacturing industries coverage of establishments in the 20 to 49 employent size band has been reduced to a 1 in 2 sample. This change has relieved some 5,800 firms of the need to complete a census return. The Census has included for the first time a small sample (around 10 per cent) of units employing 11 to 19 to meet an EEC requirement to collect a limited range of data from smaller units every 5 years.

he regions defined in Table 5 take account of the boundary changes arising out of the Local Government Act 1972 and the Local Government Act (Scotland) 1973. These changes came into effect in April 1974 in England and Wales and May 1975 in Scotland.

TERMS USED IN THE CENSUS REPORT

verage number employed

Establishments were required to state the number of persons on the payroll during the year of return. eparate figures were required for:

(a) administrative, technical and clerical employees

(b) all other employees (operatives)

verages could be calculated from the figures relating to the last week of each calendar month. stablishments were also required to state the umber of working proprietors where appropriate and hese are included in total employment figures. he figures include persons engaged on merchanting or factoring and canteen workers where particulars respect of these activities could not be xcluded from the return.

Working proprietors

hese include all persons regarded as "selfimployed" for national insurance purposes and dembers of their families who worked in the ousiness without receiving a wage or salary; but such persons who worked less than half the normal umber of working hours are excluded. Directors working in the business but not in receipt of a lefinite wage, salary or commission are included

under this heading: directors paid by fee only are not included.

Administrative, technical and clerical employees include directors in receipt of a definite wage, salary or commission, managers and works foremen; research and design employees (other than operatives); draughtsmen, editorial staff, advertising staff, travellers and all office employees.

Operatives include all other classes of employees, that is, broadly speaking, all manual wage earners. They include operatives employed in power stations, transport (including roundsmen), warehouses, stores, shops and canteens, inspectors, maintenance workers and cleaners. Operatives engaged in outside work of erecting, fitting etc are also included.

Capital expenditure

Capital expenditure during the year in respect of manufacturing units where production had not started before the end of the year is included. Establishments were asked not to deduct from the value of capital expenditure amounts received or expected to be received in grants or allowances from the Government or any statutory body or local authority. Establishments with 100 or more employees were asked to include a total net capital expenditure figure for each calendar year and to state whether any of the investment shown in cost of new building work, vehicles or plant and machinery included goods for letting out on hire or leasing.

(a) New building work
This represents the cost incurred during the year of new building and other constructional work to be used in connection with the business covered by the return. The value is that charged to capital account during the year of return; it includes expenditure on new buildings and on the extension or reconstruction of old buildings, the value of works of a capital nature carried out by the establishment's own staff and the cost of any newly constructed buildings purchased. Figures shown include legal charges, stamp duties, agents! commissions, etc.

(b) Land and existing buildings
The items shown are the capital cost of freeholds purchased and the capital cost or premium payable for leaseholds acquired (excluding the value of assets acquired in taking over an existing business), and the amounts receivable for freeholds or leaseholds disposed of. The value is that charged to capital account during the year of

(c) Plant, machinery and vehicles

The items shown are the value of plant and machinery and of vehicles acquired, both new and second-hand, and the amount received for items disposed of during the year. The value of plant and machinery acquired includes plant, etc which firms produced for their own use in connection with the business covered by the return. The value of plant, etc acquired is the expenditure charged to capital account during the year of return less any discounts received, but including the cost of transport and installation.

Deductible value added tax is excluded but nondeductible value added tax on motor cars acquired is included. No deduction is made for depreciation, amortization or obsolescence. The proceeds of items disposed of during the year exclude amounts written-off for items scrapped.

Cost of industrial services

This includes amounts payable to other firms for

work done on materials supplied by the establishpayments for repairs and maintenance (including those in respect of rented buildings) and amounts paid to other firms for contracts which have been sublet.

Cost of non-industrial services

This includes rents of industrial and commercial buildings, hire of plant, machinery and vehicles (excluding vehicles hired with drivers), commercial insurance premiums, bank charges and amounts paid for professional services, post office services, transport (within the United Kingdom), advertising etc. Amounts payable on royalties for the right to use patents, trademarks, copyrights etc, manufacturing, mining and quarrying rights and technical "know-how" are also included.

Gross output

In the calculation of gross output the value of total sales and work done is increased by the rise (or reduced by the fall) during the year in the value of goods on hand for sale.

Net output

Net output, a customary census measure, is calculated by deducting from gross output the cost of purchases (reduced by the rise, or increased by the fall, during the year of stocks of materials etc.) and the cost of industrial services received, and where applicable, duties etc.

Net output per head

The figures of net output per head are derived by dividing the net output by the average number of persons employed (full and part-time) on all activities covered by the returns, including operatives, administrative, technical and clerical employees and working proprietors.

Gross value added at factor cost

Gross value added at factor cost is calculated by deducting from net output the cost of non-industrial services eg rent of buildings, hire of plant, machinery and vehicles (excluding vehicles hired with drivers), commercial insurance premiums, bank charges and amounts paid for professional services, post office services, transport (within the United Kingdom) and advertising, rates (excluding water rates) and the cost of licensing motor vehicles. This estimate of gross value added approaches more closely than census net output to the definition of net output or value added in national accounts statistics.

Gross value added at factor cost per head The figures of gross value added at factor cost per head are derived by dividing the gross value added by the average number of persons employed (full and part-time) on all activities covered by the returns, including operatives, administrative, technical and clerical employees and working proprietors.

Purchases Purchases include the cost of raw materials, components, semi-manufactured goods and workshop materials; of replacement parts and consumable tools not charged to capital account; of packaging materials of all types; of stationery and printed matter; of fuel, electricity and water; of materials to be used by the establishment or given out to other establishments for the production of machinery or other capital items for the establishment's own use; of materials for use by the establishment when working on goods supplied by customers; and of food, etc for any canteen covered by the establishment's return. Transfers of goods to the establishment from another department of the same firm not covered by the establishment's return

are included at a cost corresponding to the estimated selling value recorded by the other department. Amounts payable to transport firms or credited to the firm's own transport department for delivery of materials are excluded, as are all purchases of machinery and plant charged to capital account. Purchases of goods for merchanting or factoring have been collected separately since 1973. The values shown exclude VAT. They include. in addition to the actual purchase price, the value of packaging material charged to the establishment. The value of returned goods or packaging material returned to suppliers and any trade discounts are Materials purchased duty-paid are included at their duty-paid value, less any drawback, rebate, etc. The cost of transport is included only if it is included with the purchase price in the firm's accounts. Imported goods are included at their full delivered cost. If in the firm's accounts the transport from docks or airport is not included in the cost of goods purchased, the cost is entered at cif plus duty (if applicable). Leasing, renting and hire purchase charges are excluded.

Sales of goods produced Sales for the purposes of the annual censuses means deliveries on sale of minerals raised or goods made by establishments in the United Kingdom covered by the inquiry. Sales of goods made for these establishments by other establishments from materials given out to them and sales of waste products are included. New building work and machinery or other capital items produced by establishments for hiring out or leasing are regarded as sales, the value included in the return being that adopted in the establishments' capital asset accounts. Forward sales and canteen takings are excluded. All sales in the period of the inquiry are included irrespective of when the goods were manufactured. Goods produced in one establishment and transferred either to ancillary departments not engaged in production for which there are separate accounts, or to another establishment of the same firm not covered by the return, are treated as sales by the producing establishment and valued as far as possible as if they had been sold to an independent purchaser. Goods transferred to wholesale or retail selling organisations, for which separate accounts are kept are valued on the same basis. The value shown for sales is the "net selling value" defined as the amount (excluding VAT) charged to customers whether on an ex-works or delivered basis, after any trade discounts and agents' commissions have been deducted. The cost of packing materials less allowance for returnable cases is included.

Receipts for work done and industrial services rendered

Figures for work done represent the amount charged for work carried out on materials supplied by a customer and include the value of any materials bought and used in such work. Activities within this heading include repair and jobbing work, erection and installation of plant and machinery, exploration work and research and development. Industrial services rendered include repairs and maintenance, installation work, and technical research and studies for other organisations.

Capital goods produced for establishments! own use This includes all work of a capital nature carried out during the year by the establishments' own staff for their own use.

Non-industrial services rendered This includes rents received for commercial and industrial buildings, amounts charged for hiring out plant, machinery and vehicles and other goods

and amounts charged to other organisations for the provision of transport. It also includes amounts received for the right to use patents, trademarks, copyrights etc, manufacturing, mining and quarrying rights and technical "know-how" and revenue from such staff facilities as canteens.

Goods merchanted or factored Merchanted goods are those (excluding canteen sales) sold without having been subjected to any manufacturing process by the seller.

Stocks and work in progress Values are given of stocks of goods on hand for sale and of materials, stores and fuel, at the end of the year of return and of the change during the year, including any stocks of goods held for merchanting or factoring. Work in progress is defined as materials which have been partially processed by the establishment but which are not usually sold or transferred to another establishment without further processing. The values include the cost of materials consumed and labour used. Progress payments made to subcontractors are excluded and progress payments received from other organisations are not deducted.

Wages and salaries

These are amounts paid during the year to operatives and to administrative, technical and clerical employees. Payments to working proprietors, whether called salaries or not, are excluded. The values shown include all overtime payments, bonuses and commissions, whether paid regularly or not, and no deduction is made for income tax, insurances, contributory pensions etc.
The value of redundancy payments less any amounts reimbursed from Government sources is included. The value of any payments in kind, travelling expenses etc is excluded.

Employers' insurance and welfare contributions This item includes employers' contributions to national insurance under the Social Security Pensions Act, 1975 as well as commercial insurance premiums to provide pensions, superannuation or other retirement benefits, sickness benefits, personal accident benefits, disability or death penefits for employees or former employees or their dependants. Contributions to the running costs of canteens, social centres, children's and holiday homes, etc for employees, former employees and their dependants are also included.

Operating ratios

he operating ratios shown were obtained by dividing the estimate of the industry total for the quantity shown in the numerator by the correspondng estimate for the quantity shown in the denominator. These estimates cover all establishents classified to each industry, including non-selected establishments and non-respondents. Within an industry, it is possible to compare ratios for an individual firm with the ratios shown for the relevant industry. However, it is important to bear in mind that various factors may affect the results - for example, differences in definitions, treatment of depreciation (which is not identified in the census data) and varying practice with regard to stock valuation, may affect comparability in some respects.

#### © Crown copyright 1980

#### Her Majesty's Stationery Office

Government Bookshops

49 High Holborn, London WC1W6HB
13a Castle Street, Edinburgh EH2 3AR
41 The Hayes, Cardiff CF1 1JW
Brazennose Street, Manchester M60 8AS
Southey House, Wine Street, Bristol BS1 2BQ
258 Broad Street, Birmingham B1 2HE
80 Chichester Street, Belfast BT1 4JY

Government publications are also available through booksellers

Extracts from this publication may be reproduced provided the source is acknowledged. Proposals for complete reproduction should be addressed to the Librarian, Business Statistics Office, Newport, Gwent NPT 1XG

