

# “AGMA” load classification

## Applications

| OPERATION in hours/day                         | OPERATION in hours/day |         |         |
|--|------------------------|---------|---------|
|  | 3h/day                 | 10h/day | 24h/day |
| <b>AGITATORS</b>                               |                        |         |         |
| liquids with variable density                  | II                     | II      | II      |
| liquids and solids                             | II                     | II      | II      |
| pure liquids                                   | I                      | I       | II      |
| semi-liquids, variable density                 | II                     | II      | II*     |
| <b>ANCHOR CAPSTANS</b>                         | II                     | II      | II*     |
| <b>BREWERIES, DISTILLERIES</b>                 |                        |         |         |
| boilers, continuous duty                       |                        |         | II      |
| cookers, continuous duty                       |                        |         | II      |
| brewing vats, continuous duty                  |                        |         | II      |
| bottling machines                              | I                      | I       | II      |
| <i>scaling hoppers :</i>                       |                        |         |         |
| frequent starts                                | II                     | II      | III     |
| <b>CANE KNIVES</b>                             | II                     | II      | III     |
| <b>CLARIFIERS</b>                              | I                      | I       | II      |
| <b>CLAY (industry)</b>                         |                        |         |         |
| brick machines                                 | III                    | III     | III*    |
| processing machines                            | II                     | II      | II      |
| mixers   | II                     | II      | II      |
| brick presses                                  | III                    | III     | III*    |
| <b>COMPRESSORS</b>                             |                        |         |         |
| lobe   | I                      | II      | II      |
| centrifugal                                    | I                      | II      | II      |
| <b>CONTROL (vehicle)</b>                       | II                     | II      | II      |
| <b>CONVEYORS (loaded or fed uniformly)</b>     |                        |         |         |
| belt   | I                      | I       | II      |
| chain  | I                      | I       | II      |
| scale  | I                      | I       | II      |
| bucket   | I                      | I       | II      |
| metal plate                                    | I                      | I       | II      |
| screw  | I                      | I       | II      |
| assembly                                       | I                      | I       | II      |
| furnace  | I                      | I       | II      |
| <b>CONVEYORS (loaded or fed non-uniformly)</b> |                        |         |         |
| <i>severe duty :</i>                           |                        |         |         |
| belt   | II                     | II      | II      |
| chain  | II                     | II      | II      |
| scale  | II                     | II      | II      |
| bucket   | II                     | II      | II      |
| metal plate                                    | II                     | II      | II      |
| roller   | I                      | I       | II      |
| screw  | II                     | II      | II      |
| alternative                                    | III                    | III     | III*    |
| assembly                                       | II                     | II      | II      |
| furnace  | II                     | II      | II      |
| vibrator                                       | III                    | III     | III*    |
| removal  | I                      | I       | -       |
| <b>COOLING TOWERS</b>                          | -                      | -       | -       |
| <b>CRANES AND LIFTING</b>                      |                        |         |         |
| moving truck                                   | -                      | -       | -       |
| moving bridge                                  | -                      | -       | -       |
| bucket winches                                 | -                      | -       | -       |
| hoisting gear                                  | -                      | -       | -       |
| <b>DREDGERS</b>                                |                        |         |         |
| shaker control                                 | III                    | III     | III*    |
| cutting head control                           | III                    | III     | III*    |
| sieve control                                  | III                    | III     | III*    |
| conveyors                                      | I                      | II      | II      |
| pumps  | I                      | II      | II      |
| cable winding drums                            | I                      | II      | -       |
| handling winches                               | II                     | II      | -       |
| duty winches                                   | II                     | II      | -       |
| <b>ELEVATORS</b>                               |                        |         |         |
| centrifugal unloading                          | I                      | I       | II      |
| gravity unloading                              | I                      | I       | II      |
| escalators                                     | I                      | II      | III     |
| <i>buckets:</i>                                |                        |         |         |
| continuous load                                | I                      | I       | II      |
| severe load                                    | II                     | II      | II      |
| uniform load                                   | I                      | I       | II      |
| hoist for building materials                   | III                    | III     | -       |
| <b>FEEDING (attachment)</b>                    |                        |         |         |
| alternative                                    | III                    | III     | III*    |
| disks  | I                      | I       | II      |
| lattice  | I                      | II      | II      |
| belt   | I                      | II      | II      |
| screw  | I                      | II      | II      |
| <b>FILTERS</b>                                 | I                      | II      | III     |
| <b>FOOD TECHNOLOGY</b>                         |                        |         |         |

| OPERATION in hours/day         | OPERATION in hours/day |         |         |
|--------------------------------|------------------------|---------|---------|
|                                | 3h/day                 | 10h/day | 24h/day |
| cereal cookers                 |                        |         | II      |
| beet choppers                  | II                     | II      | II      |
| meat choppers                  | II                     | II      | II      |
| dough mixers                   | I                      | II      | II      |
| extruding machines             | I                      | II      | III     |
| <b>FURNACES</b>                |                        |         |         |
| driers, coolers                | I                      | II      | II      |
| tumbling barrels               | III                    | III     | III*    |
| <b>GRINDERS</b>                |                        |         |         |
| minerals                       | III                    | III     | III*    |
| stones                         | III                    | III     | III*    |
| <b>HAMMER MILLS</b>            | III                    | III     | III*    |
| <b>MACHINE TOOLS</b>           |                        |         |         |
| main drive system              | I                      | II      | II      |
| auxiliary drive system         | I                      | I       | II      |
| punching machines (geared)     | III                    | III     | III*    |
| flat planers                   | III                    | III     | III*    |
| bending rollers                | II                     | II      | II      |
| nut tappers                    | II                     | III     | III*    |
| shears                         | III                    | III     | III     |
| <b>METALLURGY (industry)</b>   |                        |         |         |
| drawing frames, carriage       | III                    | III     | III*    |
| drawing frames, main control   | III                    | III     | III*    |
| <i>table conveyor :</i>        |                        |         |         |
| single direction of operation  | I                      | II      | III     |
| reverse operation              | III                    | III     | III     |
| wire winders                   | I                      | II      | II      |
| sheet metal winders            | I                      | II      | II      |
| spreading roller drive systems | III                    | III     | III*    |
| splitting lines                | II                     | II      | III     |
| wire drawing mills, flatteners | II                     | II      | III     |
| sectioners                     | III                    | III     | III*    |
| separating rollers             | -                      | -       | -       |
| drying rollers                 | -                      | -       | -       |
| <b>MIXERS</b>                  |                        |         |         |
| constant density               | I                      | I       | II      |
| variable density               | I                      | II      | II      |
| cement, continuous duty        | I                      | II      | II      |
| cement, intermittent duty      | I                      | I       | -       |
| <b>PACKAGING MACHINES</b>      |                        |         |         |
| stackers                       | II                     | III     | III     |
| wrapping machines              | I                      | I       | II      |
| <b>PAPER (industry)</b>        |                        |         |         |
| fans                           | -                      | -       | -       |
| agitators, mixers              | I                      | II      | II      |
| wind up turrets                | I                      | I       | II      |
| calanders                      | I                      | II      | II*     |
| conveyors                      | I                      | II      | II      |
| ball conveyors                 | III*                   | III*    | III*    |
| cutters, plating machines      | I                      | II      | II      |
| bleaching vats                 | I                      | II      | II      |
| cylinders                      | I                      | II      | II      |
| felt stitching machines        | III*                   | III*    | III*    |
| washers, thickeners            | I                      | II      | II*     |
| barking machines (mechanical)  | III                    | III     | III     |
| pulp machines, uncoilers       | I                      | II      | II      |
| pulp hammers                   | II                     | II      | II*     |
| presses                        | I                      | II*     | II*     |
| suction rollers                | I                      | II      | II*     |
| driers                         | I                      | II      | II*     |
| wood pulp storing machines     | I                      | II      | II      |
| bark drums                     | III                    | III     | III*    |
| felt tension device            | I                      | II      | II      |
| <b>PRINTING (presses)</b>      | I                      | I       | II      |
| <b>PUMPS</b>                   |                        |         |         |
| <i>alternative:</i>            |                        |         |         |
| multi-cylinder single-acting   | I                      | II      | II      |
| centrifugal                    | I                      | I       | II      |
| dosing                         | I                      | II      | II*     |
| <i>rotating:</i>               |                        |         |         |
| geared                         | I                      | I       | II      |
| with lobes, with plates        | I                      | I       | II      |
| <b>ROTATING GRINDERS</b>       |                        |         |         |
| rod mills                      | III                    | III     | III*    |
| ball mills                     | III                    | III     | III*    |
| pebble mills                   | III                    | III     | III*    |
| <b>RUBBER (industry)</b>       |                        |         |         |
| air chamber extruder           | II                     | II      | II      |
| grinders (2 or more)           | II                     | II      | II*     |

| OPERATION in hours/day              | OPERATION in hours/day |         |         |
|-------------------------------------|------------------------|---------|---------|
|                                     | 3h/day                 | 10h/day | 24h/day |
| calanders                           | II                     | II      | II*     |
| extruders                           | II                     | II      | III     |
| sheet forming machines              | I                      | II      | II*     |
| mixers                              | III                    | III     | III*    |
| <b>SEWAGE PLANTS</b>                |                        |         |         |
| surface fans                        | III                    | III     | III     |
| duck type fans                      | III                    | III     | III     |
| bar screens                         | I                      | I       | II      |
| screw pumps                         | I                      | II      | III     |
| <b>SIEVES</b>                       |                        |         |         |
| rotating                            | I                      | II      | III     |
| stone washer with water circulation | I                      | I       | II      |
| <b>SORTERS, GRADERS</b>             | I                      | II      | II      |
| <b>TEXTILES</b>                     |                        |         |         |
| reelers (except drum)               | I                      | II      | II      |
| calanders                           | I                      | II      | II      |
| padding calanders                   | I                      | II      | II      |
| carding machines, spinners          | I                      | II      | II*     |
| alignment control                   | -                      | -       | -       |
| glueing machines                    | I                      | II      | II      |
| drying machines, mangles            | II                     | II      | II      |
| napping mills                       | I                      | II      | II      |
| washing machines                    | I                      | II      | II      |
| soap milling machines               | I                      | II      | II      |
| dyeing machines                     | I                      | II      | II      |
| knitting machines                   | -                      | -       | -       |
| <i>cloth finishing machines :</i>   |                        |         |         |
| washers, spreading machines         | I                      | II      | II      |
| driers, calanders                   | I                      | II      | II      |
| thread preparation machines:        |                        |         |         |
| weaving looms                       | II                     | III     | III     |
| spinning machines                   | I                      | I       | II      |
| driers                              | I                      | II      | II      |
| loading hoppers                     | II                     | II      | II      |
| <b>TIMBER (industry)</b>            |                        |         |         |
| <i>supplying :</i>                  |                        |         |         |
| saws in series                      | III                    | III     | III*    |
| sectioners                          | II                     | II      | III     |
| planers                             | II                     | II      | III     |
| cutting                             | II                     | II      | III     |
| chains                              | II                     | II      | III     |
| turntable control                   | I                      | II      | III     |
| main conveyors                      | I                      | II      | III     |
| ball conveyors                      | III                    | III     | III*    |
| circular feed conveyors             | I                      | II      | III     |
| burner conveyors                    | I                      | II      | III     |
| waste conveyors                     | I                      | II      | III     |
| plank conveyors                     | III                    | III     | III*    |
| transfer conveyors                  | I                      | II      | III     |
| <i>devices :</i>                    |                        |         |         |
| for planer inclination              | I                      | II      | III     |
| for ball turning                    | III                    | III     | III*    |
| barking machine, feeder             | II                     | II      | III     |
| main drive system barking machine   | III                    | III     | III*    |
| roller drive system                 | III                    | III     | III*    |
| <i>haulage of balls :</i>           |                        |         |         |
| inclined                            | III                    | III     | III*    |
| well                                | III                    | III     | III*    |
| <i>cutting saws :</i>               |                        |         |         |
| chain                               | II                     | II      | III     |
| alternative                         | II                     | II      | III     |
| sorting tables                      | I                      | II      | III     |
| ball support plates                 | III                    | III     | III*    |
| bark drums                          | III                    | III     | III*    |
| peeling tower                       | -                      | -       | -       |
| <i>transfer :</i>                   |                        |         |         |
| on bogies                           | I                      | II      | III     |
| on chains                           | I                      | II      | III     |
| <b>TIPPERS</b>                      | III                    | III     |         |
| <b>TRANSMISSION SHAFT</b>           |                        |         |         |
| loads with moderate shocks          | I                      | II      | II      |
| loads with severe shocks            | III                    | III     | III*    |
| constant loads                      | I                      | I       | II      |
| <b>VENTILATORS</b>                  | -                      | -       | -       |
| <b>WASHING MACHINES</b>             |                        |         |         |
| drum                                | II                     | II      | II      |
| reversible                          | II                     | II      | II      |
| <b>WINDING MACHINES</b>             |                        |         |         |

\* : These classes assume minimum and normal conditions. To take account of variations which may affect the load conditions, it is recommended that applications are carefully researched before making a selection.

- : Consult Leroy-Somer