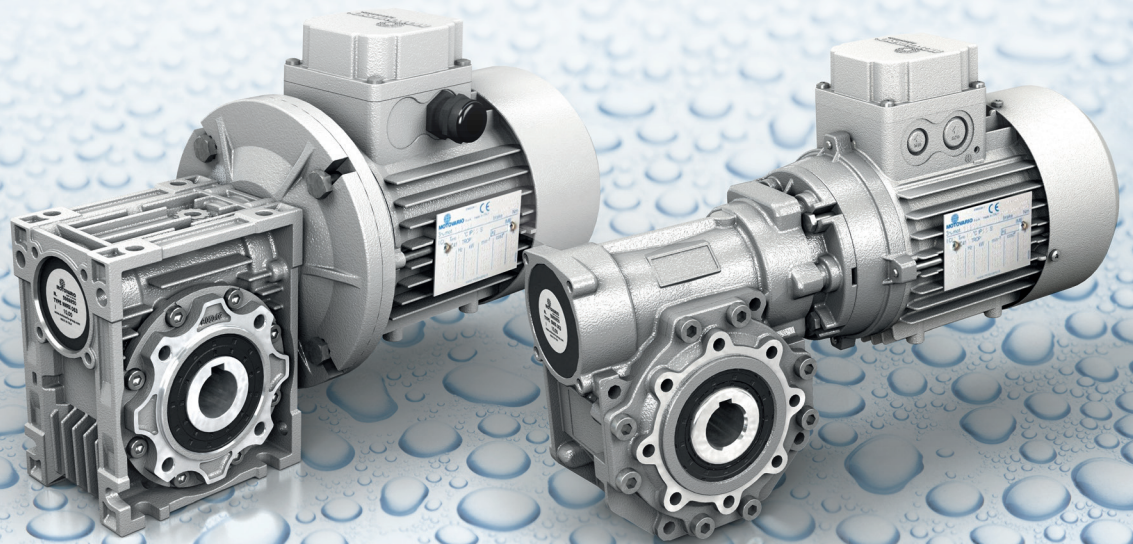


n e w

**NMR**X  
Aggressive Environments

**SW**X  
Aggressive Environments



**MOTOVARIO**<sup>®</sup>

HEART OF MOTION

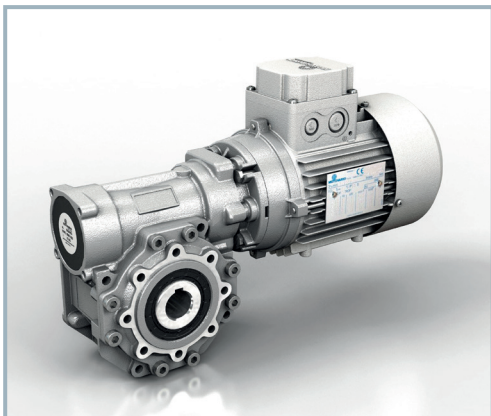
The need to provide geared motors suitable for use in **wet and corrosive environments** has led Motovario to design a **new product range** specific for these fields.

These products use materials, surface treatments, components and mechanical process for the motor and gearbox to increase both resistance and reliability.

# Range



| NMRX      | 040    | 050    | 063     | 075    | 090     |
|-----------|--------|--------|---------|--------|---------|
| M2 [Nm]   | 44     | 77     | 135     | 210    | 396     |
| P1 [kW]   | 1,2    | 2,2    | 2,8     | 4,1    | 6,9     |
| Ratio (i) | 5..100 |        |         |        |         |
| D [mm]    | Ø18-19 | Ø24-25 | Ø25     | Ø28-30 | Ø35     |
|           | Ø0.75" | Ø1"    | Ø1.125" | Ø1.25" | Ø1.375" |
| H [mm]    | 121,5  | 144,0  | 174,0   | 205,0  | 238,0   |



| SWX       | 030     | 040    | 050    | 063     | 075    | 090     | 105     |
|-----------|---------|--------|--------|---------|--------|---------|---------|
| M2 [Nm]   | 18      | 40     | 73     | 135     | 210    | 360     | 660     |
| P1 [kW]   | 0,6     | 1,1    | 2,0    | 2,8     | 4,1    | 6,3     | 10,4    |
| Ratio (i) | 5..80   | 5..100 |        |         |        |         |         |
| D [mm]    | Ø14     | Ø18-19 | Ø24-25 | Ø25     | Ø28-30 | Ø35     | Ø42     |
|           | Ø0.625" | Ø0.75" | Ø1"    | Ø1.125" | Ø1.25" | Ø1.375" | Ø1,625" |
| H [mm]    | 94,5    | 112,0  | 136,0  | 168,0   | 197,0  | 230,0   | 284,0   |

**Foot, flange and shaft mounting. Input side with PAM flange according to the catalogue predispositions.**

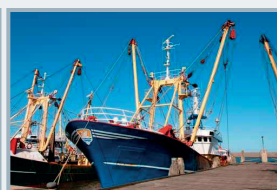
## Fields of Application



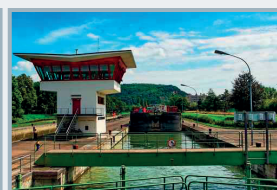
Food processing, poultry, fishing, meat and fish industry



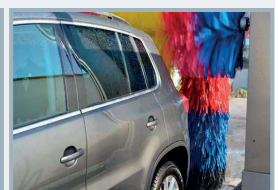
Chemical, cosmetic and pharmaceutical industry



Marine on-board (i.e.: capstan and winches) and quayside installations



Outdoors installation (i.e.: sluice gate)



Corrosive/high humidity (i.e.: car wash or swimming pool cover applications) and/or highly hygienic environments

# NMRX | SWX Standard Features

Specific adhesive nameplate for aggressive environments



Hollow low speed shaft AISI 304

Anti-corrosion screws

Synthetic oil

Specific input flange to seal Reducer/ Motor coupling

Standard painting blue RAL 5010



Available SWX geared motors ANTICORROSION Series version with Optional Special anticorrosion painting Blue RAL 5010 / Grey RAL 9006 / White RAL 9010



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# Electric Motors Series for **aggressive** environments: TSX-THX

- Unpainted MTV electric motor, three-phase 4 poles, sizes 063 ÷ 112
- Sizes and powers according to Motor Catalogue M/2011/REV.1
- B5 - B14 mounting position with corresponding vertical positions
- S1 duty
- Aluminum nameplate
- Screws AISI 316
- Tie rods AISI 316
- Shielded 2RS bearings
- Protection rating IP56
- Insulation Class F
- Cooling system IC411
- Motor fan suitable for aggressive environments
- Standard ambient conditions
- Available TSBX/TBHX Brake Motors Series for aggressive environments

## Options/**Accessories** NMRX | SWX

- Reinforced viton oil seals loaded with stainless steel spring
- Oil seals resistant to high pressure washing
- Low speed shaft AISI 304
- Breather plugs pos. B3/V6/B8 + Unused plug holes closed with button plugs (only NMRX)
- Shielded bearings 2RS on low speed shaft
- Food grade lubricant, Class UH1
- Lubrication oil suitable for high and low temperatures
- Hollow low speed shaft safety cover
- Optional paint colours grey RAL 9006 and white RAL 9010
- Output flange, SWX foot, Torque arm painted according to the gear reducer

## Options/**Accessories** TSX-THX

- Motor in S2 limited duration duty without fan/fan cover and drive end shaft (real shield closed)
- Protection rating IP66
- Insulation Class H
- Low temperatures and high temperatures design options
- Anti condensation heaters, condensation draining holes
- Thermal cutouts and Thermistors F / H class
- Optional painting blue RAL 5010 or grey RAL 9006 or white RAL 901
- Rain cover roof painted according to the motor
- UL and GOST Certifications



HEART OF MOTION



## Standard features Gear Reducers

- Hollow low speed shaft AISI 316
- Specific adhesive nameplate for aggressive environments
- Specific input flange to seal Reducer/Motor coupling
- Anti-corrosion screws AISI 316
- Threaded holes sealed using pressed plugs without recesses
- Shielded bearings 2RS on low speed shaft
- "Sealed" casing
- Output seals FDA compliant
- Food grade lubricant, Class UH1
- Double layer epoxy painting FDA compliant white RAL 9010

## Options/Accessories Gear Reducers

- Low speed shaft AISI 316
- Oil seals resistant to high pressure washing
- Hollow low speed shaft safety cover
- Output flange, SWX foot, Torque arm painted white RAL 9010

## Standard features Electric Motors

- Three-phase 4 poles MTV motor, sizes 063 ÷ 112
- Sizes and powers according to Motor Catalogue M/2011/REV1
- B5 - B14 Mounting position with corresponding vertical positions
- Screws, tie rods and geared motor nameplate AISI 316
- Shielded bearings 2RS type
- Protection rating IP56
- Caps and cablelands for food environments
- S1 Duty
- Insulation Class F
- Cooling system IC411
- Motor fan suitable for food environments (FDA compliant)
- Standard ambient conditions
- Double layer epoxy painting FDA compliant white RAL 9010

## Options/Accessories Electric Motors

- Motor in S2 limited duration duty without fan/fan cover and drive end shaft (real shield closed)
- Protection rating IP66
- Insulation Class H
- Low temperatures and high temperatures design options
- Anti condensation heaters, condensation draining holes
- Thermal cutouts and Thermistors F / H class
- Rain cover roof painted white RAL 9010
- UL and GOST Certifications
- Brake Motors available on request

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# Worldwide



**MAC**<sup>™</sup>  
MOTOVARIO ASSEMBLY CENTRE

