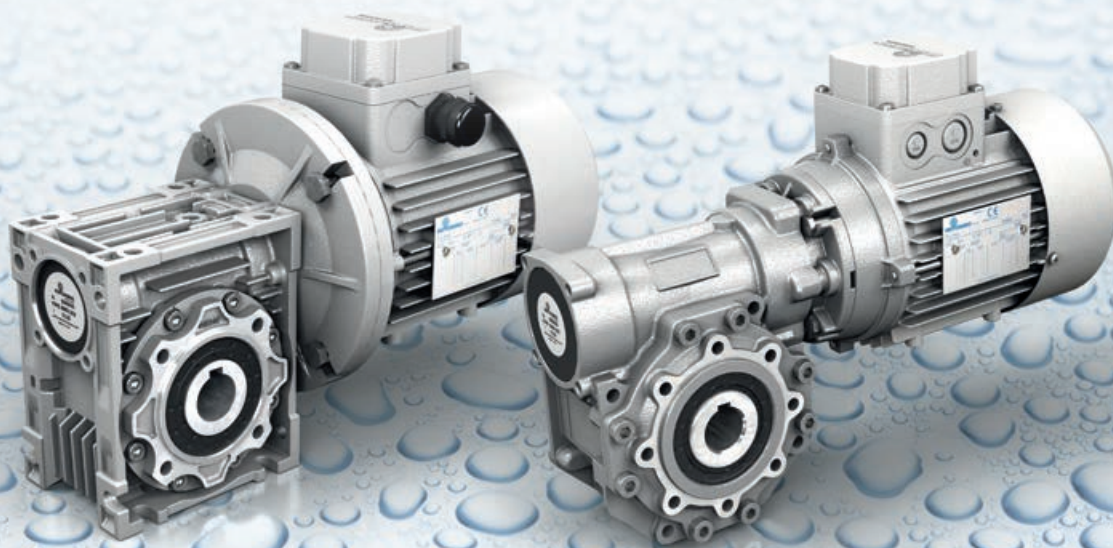


n e w

**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**  
Aggressive Environments

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**  
Aggressive Environments

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



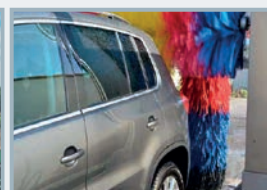
Chemical, cosmetic and pharmaceutical industry



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



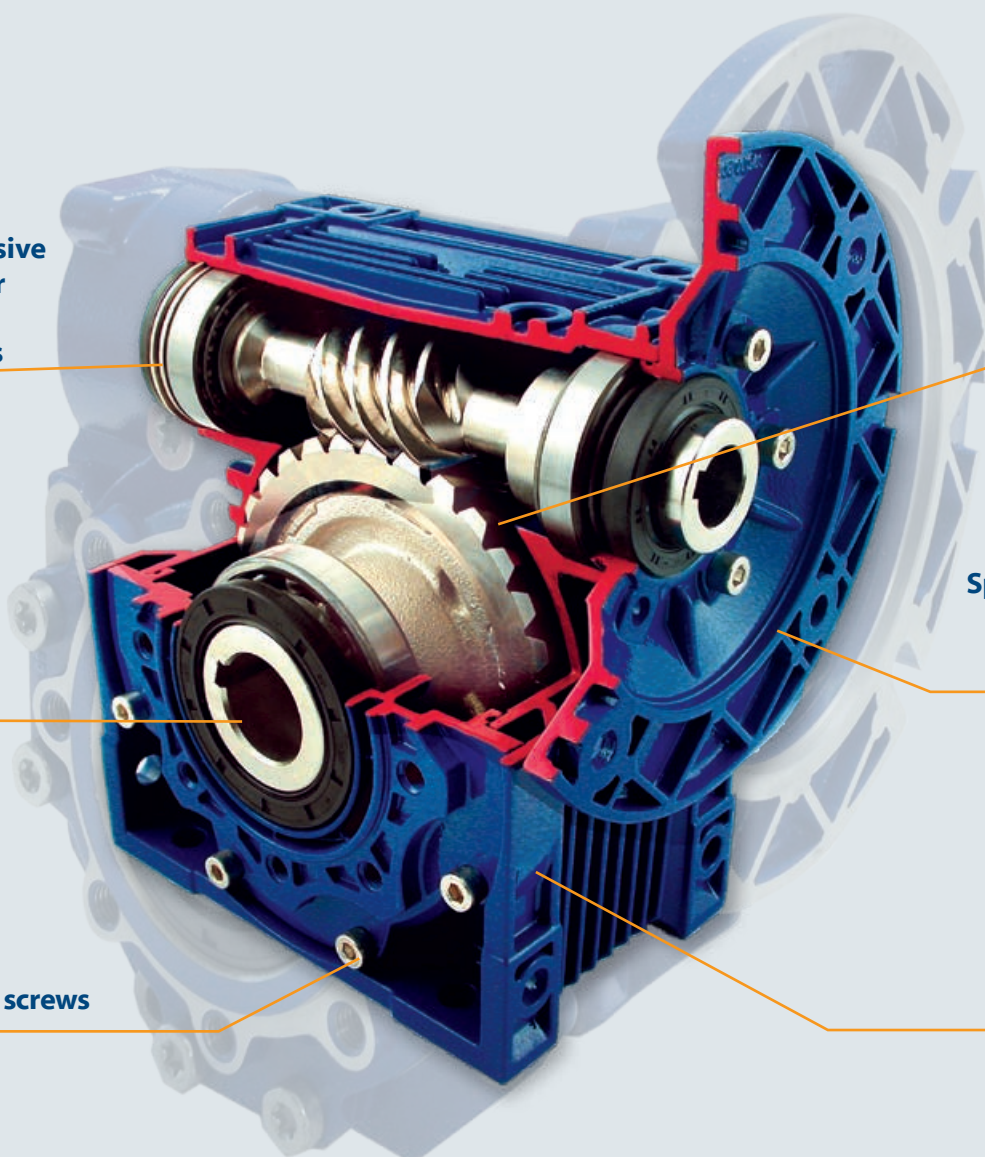
Hollow low  
speed shaft  
AISI 304

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
- Shielded bearings on low speed shaft 2RS type
- 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



## Standard features Gear Reducers

- Hollow low speed shaft AISI 316
- Specific adhesive nameplate for aggressive environments
- Specific input flange to seal Reducer/Motor coupling (IEC Motors)
- 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 cableglands 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
-

# Worldwide

DP-NMRX/SWX/ENG/2013/REV.0



Italy	Malaysia
Australia	Poland
Benelux	Portugal
Bulgaria	South Korea
China	Spain
Finland	Sweden
France	Thailand
India	Turkey
Ireland	United Kingdom
Israel	Ukraine
Lithuania	USA

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