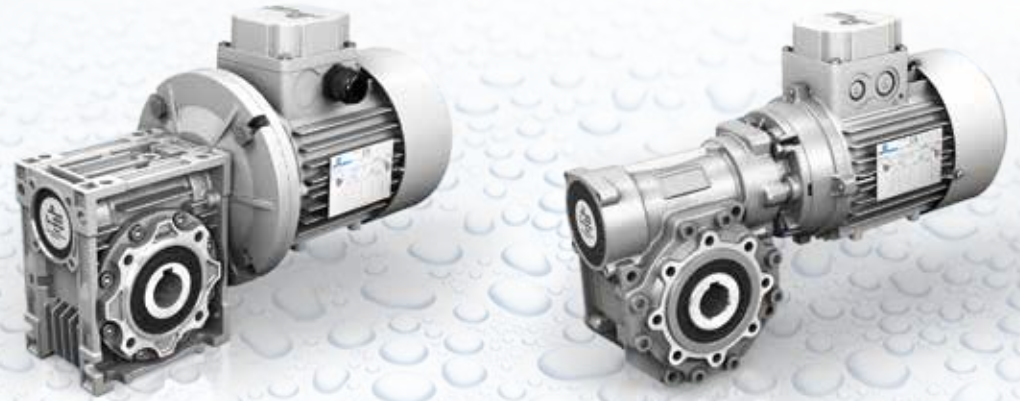
VSF SERIES



NMRX Aggressive Environments

SWX Aggressive Environments

MOTOVARIO®
HEART OF MOTION
a TECO Group company

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.

FieldsofApplication

- **Food processing, poultry, fishing, meat and fish industry**

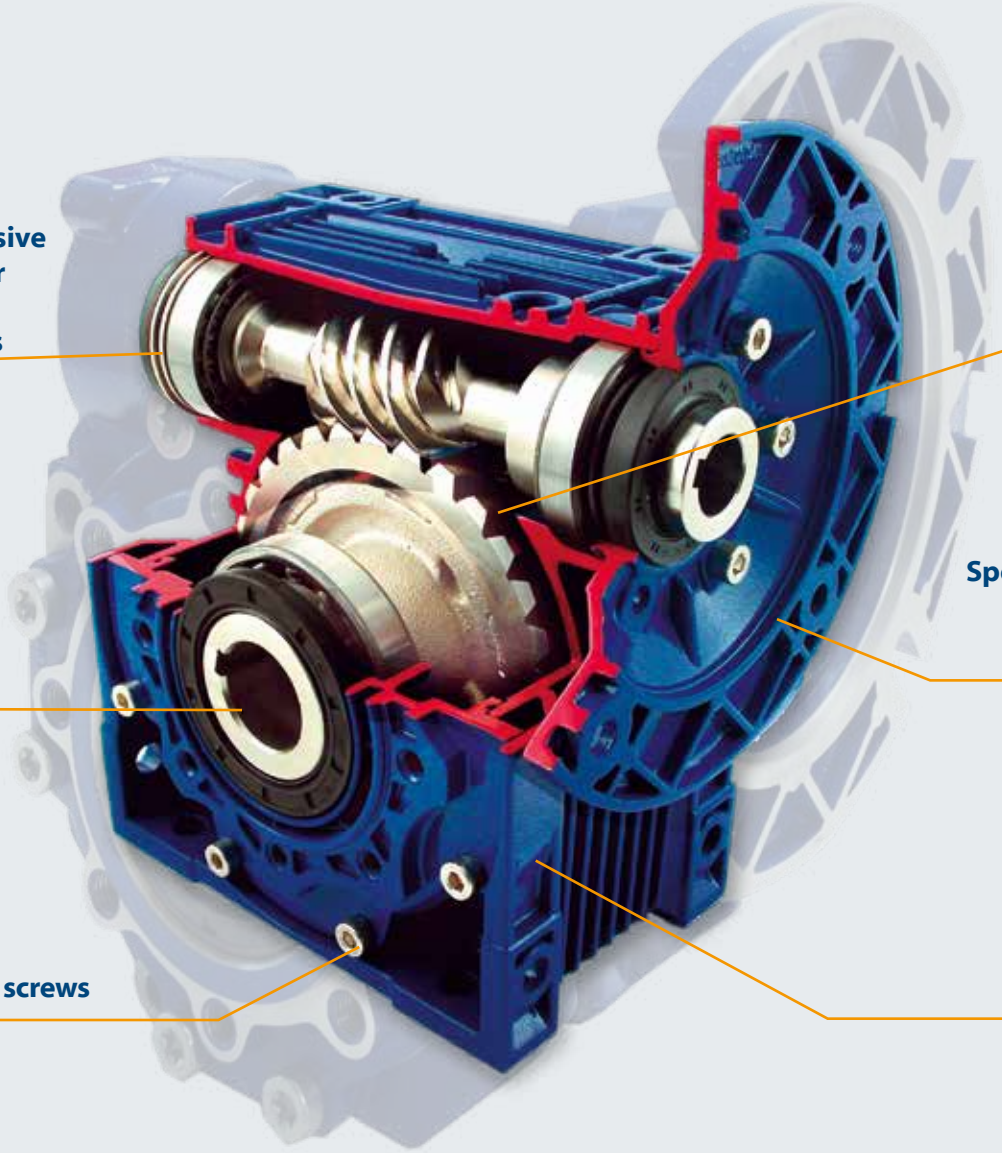
- **Chemical, cosmetic and pharmaceutical industry**

- **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

Synthetic oil

Hollow low speed shaft AISI 304

Specific input flange to seal Reducer/ Motor coupling

Anti-corrosion screws

Standard painting blue RAL 5010

SWX Clean Environments

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

Electric Motors Series for **aggressive** environments: TS**X**-TH**X**

- **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** NMR**X** | SW**X**

- **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** TS**X**-TH**X**

- **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**

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SWFX Food Environments for **Food** Industries

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

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** 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

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/EN/2016/REV.0

Subsidiaries

Germany

France

Spain

United Kingdom

Denmark

USA

China

India

MAC™
MOTOVARIO ASSEMBLY CENTRE

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