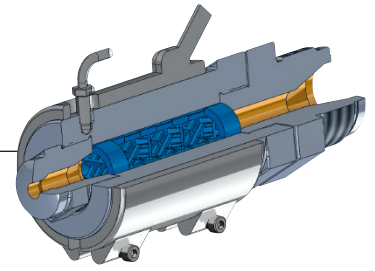


homogenization by continuous division and merging the partial melt streams

OFS-mixing nozzle type XMD

high quality plastic parts require a thermally homogenous melt



APPLICATION FIELDS:

For high quality plastic parts, it is necessary to have a thermal homogeneous melt. The regular homogeneity of additives like flame retardant and UV-stabilizer are also a guarantor for high quality plastic parts as colour and thermal mixing. The high blend power of the OFS-mixing-nozzle ensures saving of colour-batches and other additives.

STATIC MIXER TYPE XM:

The static mixer type XM usually consists of 8 elements with specially arranged bars in order to create an optimal homogenization of the melt. Each element is arranged by the pin-groove connection in such a way that a complete mixing system is automatically created by assembling several elements. By dividing and combining the melt flow multiple times, the introduced materials (batch, additives, ...) are mixed in such a way that the melt is optimally homogeneous in terms of concentration, temperature, ... is achieved. The size and maybe

changing number of mixing elements depends on the application, considering the material to be processed, the melt index, the volume flow and the current pressure conditions.

YOUR BENEFIT:

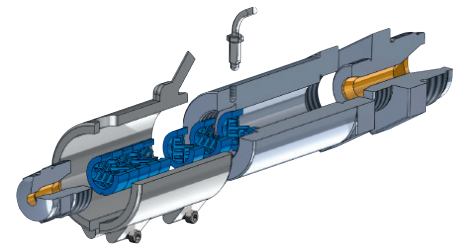
1. thermally homogeneous melt.
2. uniform melt viscosity also with high regeneration rate.
3. closer tolerances, better surface quality of the moulded parts, that means less discarded parts.
4. homogeneous coloration → streak-free products, reduced batch costs.
5. amortization by production advantages within a short time

PRODUCT FEATURES:

- ▶ 8 mixing-elements (special design available).
- ▶ completely detachable → simple cleaning.
- ▶ easy assembling and disassembling
- ▶ heater and thermocouple included.

MORE OPTIONS::

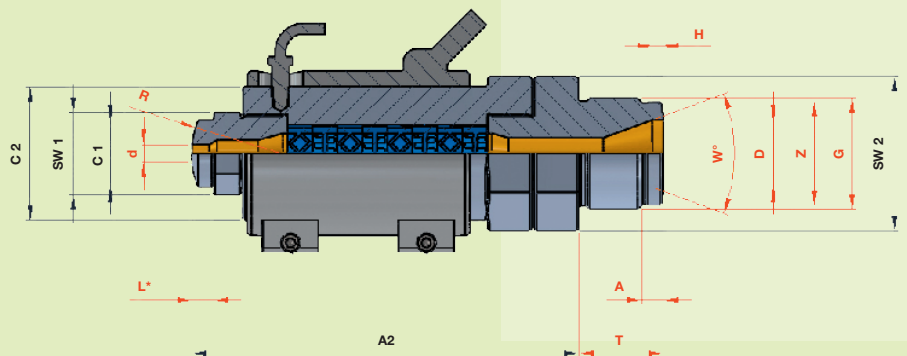
- ▶ with shut-off function
- ▶ with filtration
- ▶ nozzlehead with dip nozzle
- ▶ nozzlehead with interior thread
- ▶ nozzlebase with needle seat etc.



OFS-mixing nozzle type XMD „components“

REQUIRED MEASUREMENTS

| | | |
|----------------------|---|---------------------|
| machine thread | G | |
| T/A/D/Z/W°/H | | specify if required |
| length of nozzlehead | L | |
| drill | d | |
| radius / surface | R | |



REQUIRED PARAMETERS

| | | |
|--------------------------|-----|--|
| material (MFI) | | |
| shot weight | gr. | |
| melt temperature | °C | |
| injection time | sec | |
| injection pressure spec. | bar | |
| machine type | | |
| screw dia | mm | |

DATA AND STANDARD DIMENSIONS (mm)

| | | XMD 12/8 | XMD 18/8 | XMD 22/8 | XMD 27/8 | XMD 33/8 | XMD 40/8 |
|-------------------------|-----|----------|----------|----------|----------|----------|----------|
| appr. screw dia | mm | 18-50 | 40-70 | 50-90 | 70-120 | 80-140 | 100-180 |
| max. injection pressure | bar | 2.000 | 2.000 | 2.000 | 2.000 | 2.000 | 2.000 |
| length | A2 | 116 | 175 | 190 | 225 | 280 | 310 |
| nozzlehead dia | C1 | 24 | 30 | 30 | 30 | 40 | 40 |
| nozzlebase dia | C2 | 50 | 60 | 60 | 60 | 80 | 80 |
| hexagon nozzlehead | SW1 | 27 | 32 | 32 | 32 | 60 | 60 |
| hexagon nozzlebase | SW2 | 50 | 60 | 60 | 60 | 80 | 80 |