

**EUROMAP 84.8**

**OPC UA interfaces for plastics and rubber  
machinery – Extrusion – Part 8: Pelletizer**

**Release 2.00, 2022-06-08**

**EUROMAP 84.8 (Release 2.00) is identical with  
OPC 40084-8 (Release 2.00) and VDMA 40084-8:2022-08**

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## Foreword

This specification was created by a joint working group of the OPC Foundation and EUROMAP. It is adopted identically as VDMA Specification.

Compared with the previous version, the following changes have been made:

Version	Changes
OPC 40084-8, version 2.00 (identical with VDMA 40084-8:2022-07 and EUROMAP 84.8, version 2.00)	<p>Use of OPC UA for machinery / version 2.00 of OPC 40084-1 :</p> <ul style="list-style-type: none"> <li>– Changed entry point from <i>DeviceSet</i> to <i>Machines Object</i></li> <li>– Use of updated <i>ExtrusionDeviceType</i> (see OPC 40084-1) with: <ul style="list-style-type: none"> <li>– replaced <i>MachineInformation</i> (<i>MachineInformationType</i> from OPC 40083) with <i>Identification</i> (<i>MachineIdentificationType</i> from OPC 40001-1),</li> <li>– replaced <i>LineStatus</i> by <i>MachineryItemState</i> and <i>MachineryOperationMode</i></li> </ul> </li> </ul> <p>Security Policy deleted because included in part 1</p> <p>Conformance units and profiles adjusted</p>

## EUROMAP

EUROMAP is the European umbrella association of the plastics and rubber machinery industry which accounts for annual sales of around 13.5 billion euro and a 40 per cent share of worldwide production. Almost 75 per cent of its European output is shipped to worldwide destinations. With global exports of 10.0 billion euro, EUROMAP's around 1,000 machinery manufacturers are market leaders with nearly half of all machines sold being supplied by EUROMAP members.

EUROMAP provides technical recommendations for plastics and rubber machines. In addition to standards for machine descriptions, dimensions and energy measurement, interfaces between machines feature prominently. The provision of manufacturer independent interfaces ensures high levels of machine compatibility.

## OPC Foundation

OPC is the interoperability standard for the secure and reliable exchange of data and information in the industrial automation space and in other industries. It is platform independent and ensures the seamless flow of information among devices from multiple vendors. The OPC Foundation is responsible for the development and maintenance of this standard.

OPC UA is a platform independent service-oriented architecture that integrates all the functionality of the individual OPC Classic specifications into one extensible framework. This multi-layered approach accomplishes the original design specification goals of:

- Platform independence: from an embedded microcontroller to cloud-based infrastructure
- Secure: encryption, authentication, authorization and auditing
- Extensible: ability to add new features including transports without affecting existing applications
- Comprehensive information modelling capabilities: for defining any model from simple to complex

## 1 Scope

OPC 40084-8 describes the data exchange interface for pelletizers as part of an extrusion line. The interface is used by

- MES (Manufacturing Execution System) for collecting the information generated by extrusion lines at a central point for easier quality assurance and job and dataset management.
- Line controllers to monitor and set process parameters.

Safety related signals like emergency stop are not included.

## 2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies

OPC 10000-1, *OPC Unified Architecture - Part 1: Overview and Concepts*

<http://www.opcfoundation.org/UA/Part1/>

OPC 10000-3, *OPC Unified Architecture - Part 3: Address Space Model*

<http://www.opcfoundation.org/UA/Part3/>

OPC 10000-4, *OPC Unified Architecture - Part 4: Services*

<http://www.opcfoundation.org/UA/Part4/>

OPC 10000-5, *OPC Unified Architecture - Part 5: Information Model*

<http://www.opcfoundation.org/UA/Part5/>

OPC 10000-6, *OPC Unified Architecture - Part 6: Mappings*

<http://www.opcfoundation.org/UA/Part6/>

OPC 10000-7, *OPC Unified Architecture - Part 7: Profiles*

<http://www.opcfoundation.org/UA/Part7/>

OPC 10000-8, *OPC Unified Architecture - Part 8: Data Access*

<http://www.opcfoundation.org/UA/Part8/>

OPC 10000-100, *OPC Unified Architecture - Part 100: Devices*

<http://www.opcfoundation.org/UA/Part100/>

OPC 40001-1, *OPC UA for Machinery - Part 1: Basic Building Blocks*

<http://www.opcfoundation.org/UA/Machinery/>

OPC 40083: *OPC UA interfaces for plastics and rubber machinery – General Type definitions*

<http://www.opcfoundation.org/UA/PlasticsRubber/GeneralTypes>

OPC 40084-1: *OPC UA interfaces for plastics and rubber machinery – Extrusion – Part 1: General Type Definitions*

[http://www.opcfoundation.org/UA/PlasticsRubber/Extrusion\\_v2/GeneralTypes/](http://www.opcfoundation.org/UA/PlasticsRubber/Extrusion_v2/GeneralTypes/)

## 3 Terms, definitions and conventions

### 3.1 Overview

It is assumed that basic concepts of OPC UA information modelling are understood in this specification. This specification will use these concepts to describe the OPC 40084-8 Information Model. For the purposes of this document, the terms and definitions given in the documents referenced in Clause 2 apply.

Note that OPC UA terms and terms defined in this specification are *italicized* in the specification.

### 3.2 Conventions used in this document

The conventions described in OPC 40083 apply.

### 3.3 Abbreviations

MES    Manufacturing Execution System

## 4 General information to OPC UA interfaces for plastics and rubber machinery and OPC UA

For general information on OPC UA interfaces for plastics and rubber machinery and OPC UA see OPC 40083.

## 5 Use cases

OPC 40084-8 describes the data exchange interface for pelletizers as part of an extrusion line. The interface is used by

- MES (Manufacturing Execution System) for collecting the information generated by extrusion lines at a central point for easier quality assurance and job and dataset management.
- Line controllers to monitor and set process parameters.

## 6 Pelletizer\_InterfaceType

### 6.1 Pelletizer\_InterfaceType Definition

This OPC UA *ObjectType* is used for the root *Object* representing a pelletizer as part of an extrusion line. It is based on the *ExtrusionDeviceType* (defined in OPC 40084-1) and formally defined in Table 1.

The instance(s) of *Pelletizer\_InterfaceType* shall be located under the *Machines Object* of the Server (see OPC UA for Machinery).

NOTE: If the OPC UA server is implemented in the control of the pelletizer so only one instance of *Pelletizer\_InterfaceType* will be created. But it is also possible that one OPC UA server is connected to several machine controls as one interface to the MES. In this case several instances of *Pelletizer\_InterfaceType* will be created.



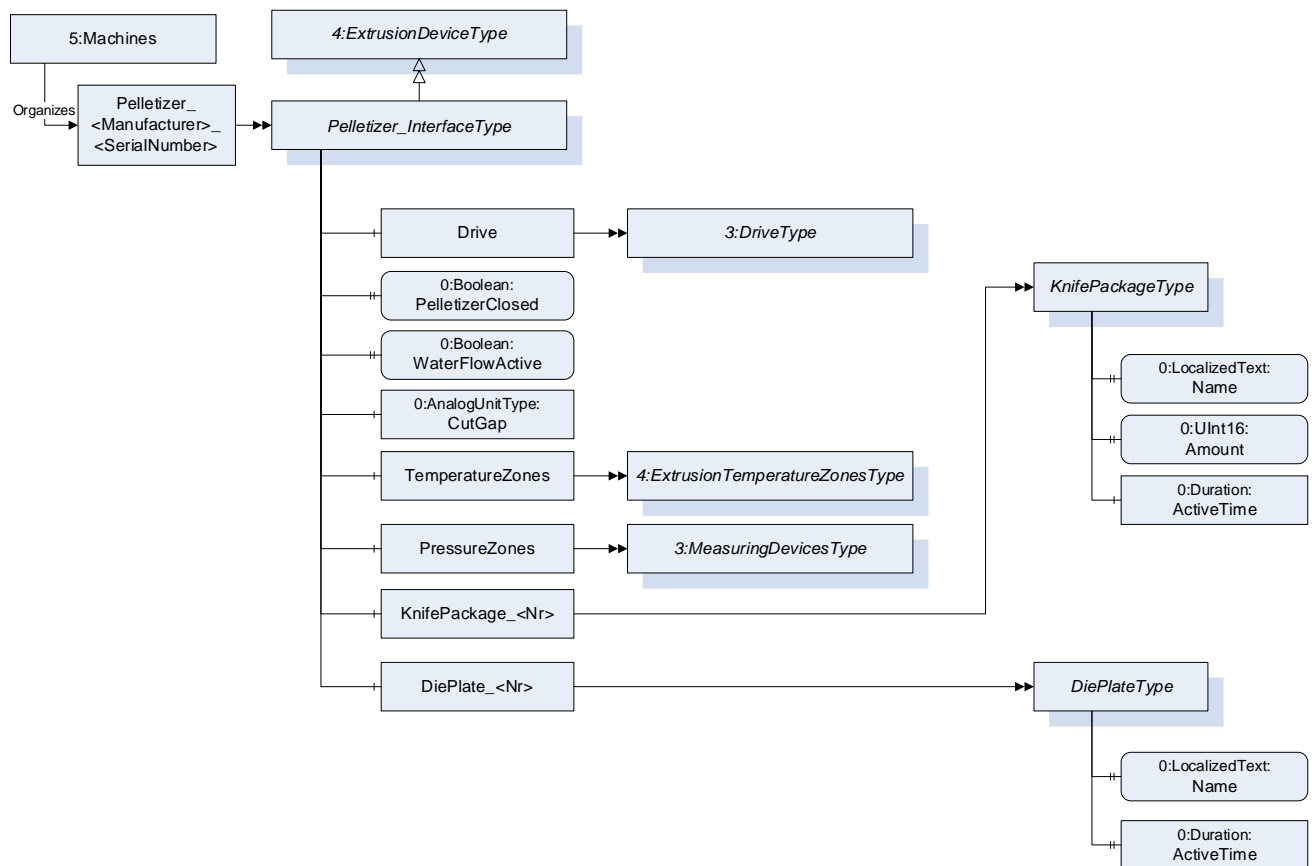


Figure 1 – Pelletizer\_InterfaceType Overview

Table 1 – Pelletizer\_InterfaceType Definition

Attribute	Value				
BrowseName	Pelletizer_InterfaceType				
IsAbstract	False				
References	Node Class	BrowseName	DataType	TypeDefinition	Other
Subtype of 4:ExtrusionDeviceType (defined in OPC 40084-1)					
0:HasComponent	Object	Drive		3:DriveType	M
0:HasProperty	Variable	PelletizerClosed	0:Boolean	0:PropertyType	O, RO
0:HasProperty	Variable	WaterFlowActive	0:Boolean	0:PropertyType	O, RO
0:HasComponent	Variable	CutGap	0:Double	0:AnalogUnitType	O, RO
0:HasComponent	Object	TemperatureZones		4:ExtrusionTemperatureZonesType	O
0:HasComponent	Object	PressureZones		3:MeasuringDevicesType	O
0:HasComponent	Object	KnifePackage_<Nr>		KnifePackageType	OP
0:HasComponent	Object	DiePlate_<Nr>		DiePlateType	OP
<b>Conformance Units</b>					
OPC 40084-8 Basic					

The *BrowseName* of the object instance shall be “Pelletizer\_<Manufacturer>\_<SerialNumber>”.

Example: “Pelletizer\_Erema\_0123456”.

## 6.2 DeviceClass

The *DeviceClass* Property in the *Identification* Object inside the *ExtrusionDeviceType* shall have the value “Pelletizer”.

## 6.3 Drive

This object gives information about the drive of the pelletizer. The *DriveType* is defined in OPC 40083.

## 6.4 PelletizerClosed

This Property describes the position of the pelletizer (Open/Closed).

## 6.5 WaterFlowActive

This Property describes the WaterFlow of the Pelletizer. This is just a Flow Switch, if the WaterFlow is active or not.

## 6.6 CutGap

This Property describes the distance between the rotation knife and the fixed knife.

## 6.7 TemperatureZones

This *ObjectType* is a container for the temperature zones at the corrugator.  
The *ExtrusionTemperatureZonesType* is defined in OPC 40084-1.

## 6.8 PressureZones

This *Object* is a container for possible additional measuring devices.

## 6.9 KnifePackage

The *KnifePackageType* gives Information of the setup of the knife package. It consists of a fixed amount of knives from a certain type.

**Table 2 – KnifePackageType Definition**

Attribute	Value				
BrowseName	KnifePackageType				
IsAbstract	False				
References	Node Class	BrowseName	Data Type	TypeDefinition	Other
Subtype of 0:BaseObjectType defined in OPC 10000-5					
0:HasProperty	Variable	Name	0:LocalizedText	0:PropertyType	M, RO
0:HasProperty	Variable	Amount	0:UInt16	0:PropertyType	M, RO
0:HasProperty	Variable	ActiveTime	0:Duration	0:PropertyType	O, RO

### 6.9.1 Name

Name of the knife package

### 6.9.2 Amount

Amount of knives in the package

### 6.9.3 ActiveTime

Active Time gives the time how long the knife package is active.

## 6.10 DiePlate

The *DiePlateType* gives Information of the die plate. It consists of a fixed number of holes with the same diameter in one or more rows.

**Table 3 – DiePlateType Definition**

Attribute	Value				
BrowseName	DiePlateType				
IsAbstract	False				
References	Node Class	BrowseName	Data Type	TypeDefinition	Other
Subtype of 0:BaseObjectType defined in OPC 10000-5					
0:HasProperty	Variable	Name	0:LocalizedText	0:PropertyType	M, RO
0:HasProperty	Variable	ActiveTime	0:Duration	0:PropertyType	O, RO

**6.10.1 Name**

Name of the die plate

**6.10.2 ActiveTime**

Active Time gives the time how long the knife package is active.

**7 Profiles and Conformance Units****7.1 Conformance Units**

This chapter defines the corresponding *Conformance Unit* for OPC 40084-8.

**Table 4 – Conformance Units for OPC 40084-8**

Category	Title	Description
Server	OPC 40084-8 Basic	Support of <i>Pelletizer_InterfaceType</i> and all mandatory child elements giving information on the melt pump and its status. There is at least one instance of the <i>Pelletizer_InterfaceType</i> in the <i>Machines Object</i> .

**7.2 Profiles****7.2.1 Profile list**

Table 5 lists all Profiles defined in this document and defines their URIs.

**Table 5 – Profile URIs for OPC 40084-8**

Profile	URI
OPC 40084-8 v2 Basic Server Profile	<a href="http://opcfoundation.org/UA-Profile/PlasticsRubber/Extrusion_v2/Pelletizer/Server/Basic">http://opcfoundation.org/UA-Profile/PlasticsRubber/Extrusion_v2/Pelletizer/Server/Basic</a>

**7.2.2 Server Facets**

This version of OPC 40084-8 defined only one *Profile*.

**Table 6 – OPC 40084-8 v2 Basic Server Profile**

Group	Conformance Unit / Profile Title	Mandatory / Optional
Extrusion	4:Extrusion v2 Extrusion Device Basic Server Profile	M
Extrusion	OPC 40084-8 Basic	M

NOTE: OPC 40084-1 includes the Facet “Extrusion v2 Production Dataset Management Server Facet” which indicates that the server supports the *3:ProductionDatasetManagementType* (defined in OPC 40083) with all its mandatory *InstanceDeclarations* and that there is the component *ProductionDatasetManagement* available in the instance of the *Pelletizer\_InterfaceType*. NOTE: The names of the supported profiles are available in the *Server Object* under *ServerCapabilities.ServerProfileArray*

**8 Namespaces****8.1 Namespace Metadata**

Table 7 defines the namespace metadata for this specification. The *Object* is used to provide version information for the namespace and an indication about static *Nodes*. Static *Nodes* are identical for all *Attributes* in all *Servers*, including the *Value Attribute*. See Part 5 for more details.

The information is provided as *Object* of type *NamespaceMetadataType*. This *Object* is a component of the *Namespaces Object* that is part of the *Server Object*. The *NamespaceMetadataType Object* and its *Properties* are defined in Part 5.

The version information is also provided as part of the ModelTableEntry in the UANodeSet XML file. The UANodeSet XML schema is defined in Part 6.

**Table 7 – NamespaceMetadata Object for this Specification**

Attribute	Value	
BrowseName	http://opcfoundation.org/UA/PlasticsRubber/Extrusion_v2/Pelletizer/	
Property	DataType	Value
NamespaceUri	String	http://opcfoundation.org/UA/PlasticsRubber/Extrusion_v2/Pelletizer/
NamespaceVersion	String	2.00
NamespacePublicationDate	DateTime	2022-05-01
IsNamespaceSubset	Boolean	False
StaticNodeIdTypes	IdType[]	0
StaticNumericNodeIdRange	NumericRange[]	
StaticStringNodeIdPattern	String	

## 8.2 Handling of OPC UA Namespaces

Namespaces are used by OPC UA to create unique identifiers across different naming authorities. The *Attributes* *NodeId* and *BrowseName* are identifiers. A *Node* in the UA *AddressSpace* is unambiguously identified using a *NodeId*. Unlike *NodeIds*, the *BrowseName* cannot be used to unambiguously identify a *Node*. Different *Nodes* may have the same *BrowseName*. They are used to build a browse path between two *Nodes* or to define a standard *Property*.

*Servers* may often choose to use the same namespace for the *NodeId* and the *BrowseName*. However, if they want to provide a standard *Property*, its *BrowseName* shall have the namespace of the standards body although the namespace of the *NodeId* reflects something else, for example the *EngineeringUnits Property*. All *NodeIds* of *Nodes* not defined in this document shall not use the standard namespaces.

Table 8 provides a list of mandatory and optional namespaces used in an OPC 40084-8 OPC UA *Server*.

**Table 8 – Namespaces used in an OPC 40084-8 Server**

NamespaceURI	Description	Use
http://opcfoundation.org/UA/	Namespace for <i>NodeIds</i> and <i>BrowseNames</i> defined in the OPC UA specification. This namespace shall have namespace index 0.	Mandatory
Local Server URI	Namespace for nodes defined in the local server. This may include types and instances used in a device represented by the server. This namespace shall have namespace index 1.	Mandatory
http://opcfoundation.org/UA/DI/	Namespace for <i>NodeIds</i> and <i>BrowseNames</i> defined in OPC 10000-100. The namespace index is server specific.	Mandatory
http://opcfoundation.org/UA/PlasticsRubber/GeneralTypes/	Namespace for <i>NodeIds</i> and <i>BrowseNames</i> defined in OPC 40083. The namespace index is server specific.	Mandatory
http://opcfoundation.org/UA/PlasticsRubber/Extrusion_v2/GeneralTypes/	Namespace for <i>NodeIds</i> and <i>BrowseNames</i> defined in OPC 40084-1. The namespace index is server specific.	Mandatory
http://opcfoundation.org/UA/Machinery/	Namespace for <i>NodeIds</i> and <i>BrowseNames</i> defined in OPC 40001-1. The namespace index is server specific.	Mandatory
http://opcfoundation.org/UA/PlasticsRubber/Extrusion_v2/Pelletizer/	Namespace for <i>NodeIds</i> and <i>BrowseNames</i> defined in this specification. The namespace index is server specific.	Mandatory
Vendor specific types and instances	A server may provide vendor specific types like types derived from <i>MachineType</i> or <i>MachineStatusType</i> or vendor specific instances of devices in a vendor specific namespace.	Optional

Table 9 provides a list of namespaces and their index used for *BrowseNames* in this specification. The default namespace of this specification is not listed since all *BrowseNames* without prefix use this default namespace.

**Table 9 – Namespaces used in this specification**

NamespaceURI	Namespace Index	Example
http://opcfoundation.org/UA/	0	0:NodeVersion
http://opcfoundation.org/UA/DI/	2	2:DeviceClass
http://opcfoundation.org/UA/PlasticsRubber/GeneralTypes/	3	3:MachineInformationType
http://opcfoundation.org/UA/PlasticsRubber/Extrusion_v2/GeneralTypes/	4	4:ExtrusionDeviceType
http://opcfoundation.org/UA/Machinery/	5	5:Machines

## Annex A (normative)

### OPC 40084-8 Namespace and mappings

#### A.1 Namespace and identifiers for OPC 40084-8 Information Model

This appendix defines the numeric identifiers for all of the numeric *NodeIds* defined in this specification. The identifiers are specified in a CSV file with the following syntax:

<SymbolName>, <Identifier>, <NodeClass>

Where the *SymbolName* is either the *BrowseName* of a *Type Node* or the *BrowsePath* for an *Instance Node* that appears in the specification and the *Identifier* is the numeric value for the *NodeId*.

The *BrowsePath* for an *Instance Node* is constructed by appending the *BrowseName* of the instance *Node* to the *BrowseName* for the containing instance or type. An underscore character is used to separate each *BrowseName* in the path. Let's take for example, the *MachineInformationType ObjectType Node* which has the *ControllerName Property*. The **Name** for the *ControllerName InstanceDeclaration* within the *MachineInformationType* declaration is: *MachineInformationType\_ControllerName*.

The *NamespaceUri* for all *NodeIds* defined here is  
[http://opcfoundation.org/UA/PlasticsRubber/Extrusion\\_v2/Pelletizer/](http://opcfoundation.org/UA/PlasticsRubber/Extrusion_v2/Pelletizer/)

The CSV released with this version of the specification can be found here:

- [http://www.opcfoundation.org/UA/schemas/PlasticsRubber/Extrusion\\_v2/Pelletizer/2.00/NodeIds.csv](http://www.opcfoundation.org/UA/schemas/PlasticsRubber/Extrusion_v2/Pelletizer/2.00/NodeIds.csv)

NOTE: The latest CSV that is compatible with this version of the specification can be found here:

- [http://www.opcfoundation.org/UA/schemas/PlasticsRubber/Extrusion\\_v2/Pelletizer/NodeIds.csv](http://www.opcfoundation.org/UA/schemas/PlasticsRubber/Extrusion_v2/Pelletizer/NodeIds.csv)

A computer processible version of the complete Information Model defined in this specification is also provided. It follows the XML Information Model schema syntax defined in Part 6.

The Information Model Schema released with this version of the specification can be found here:

- [http://www.opcfoundation.org/UA/schemas/PlasticsRubber/Extrusion\\_v2/Pelletizer/2.00/Opc.Ua.PlasticsRubber.Extrusion\\_v2.Pelletizer.NodeSet2.xml](http://www.opcfoundation.org/UA/schemas/PlasticsRubber/Extrusion_v2/Pelletizer/2.00/Opc.Ua.PlasticsRubber.Extrusion_v2.Pelletizer.NodeSet2.xml)

NOTE: The latest Information Model schema that is compatible with this version of the specification can be found here:

- [http://www.opcfoundation.org/UA/schemas/PlasticsRubber/Extrusion\\_v2/Pelletizer/Opc.Ua.PlasticsRubber.Extrusion\\_v2.Pelletizer.NodeSet2.xml](http://www.opcfoundation.org/UA/schemas/PlasticsRubber/Extrusion_v2/Pelletizer/Opc.Ua.PlasticsRubber.Extrusion_v2.Pelletizer.NodeSet2.xml)
-