

# MEPNN Supplier Scouting Opportunity Synopsis

## Section 1: General Information

Scouting Number	2025-017
Item to be Scouted	Precision Imprinting Mold Supplier
Days to be scouted	60
Response Due By	03/16/2025
Description	Nickle (Ni) 1.7m x 1.7m with imprinting resolution to 10um
Notify Requester Immediately	Yes
State item to be used in	Ohio

## Section 2: Technical Information

Type of supplier being sought	Contract manufacturer
Reason	New product startup
Describe the manufacturing processes (elaborate to provide as much detail as possible)	Shim/mold used to imprint Indium Tin Oxide (ITO) Polyethylene terephthalate film (PET) film using UV curable resin.
Provide dimensions / size / tolerances / performance specifications for the item	Shim thickness – 300-600 um Size – up to 1.7m x 1.7 m Imprinted wells with wall thickness of 20um. Depth of 50um and diameter of 250um.
List required materials needed to make the product, including materials of product components	Shim material – Ni (other materials possible too)
Are there applicable certification requirements?	No
Are there applicable regulations?	No
Are there any other standards, requirements, etc.?	No
NAICS 1	
NAICS 2	
Additional Technical Comments	

## Section 4: Business Information

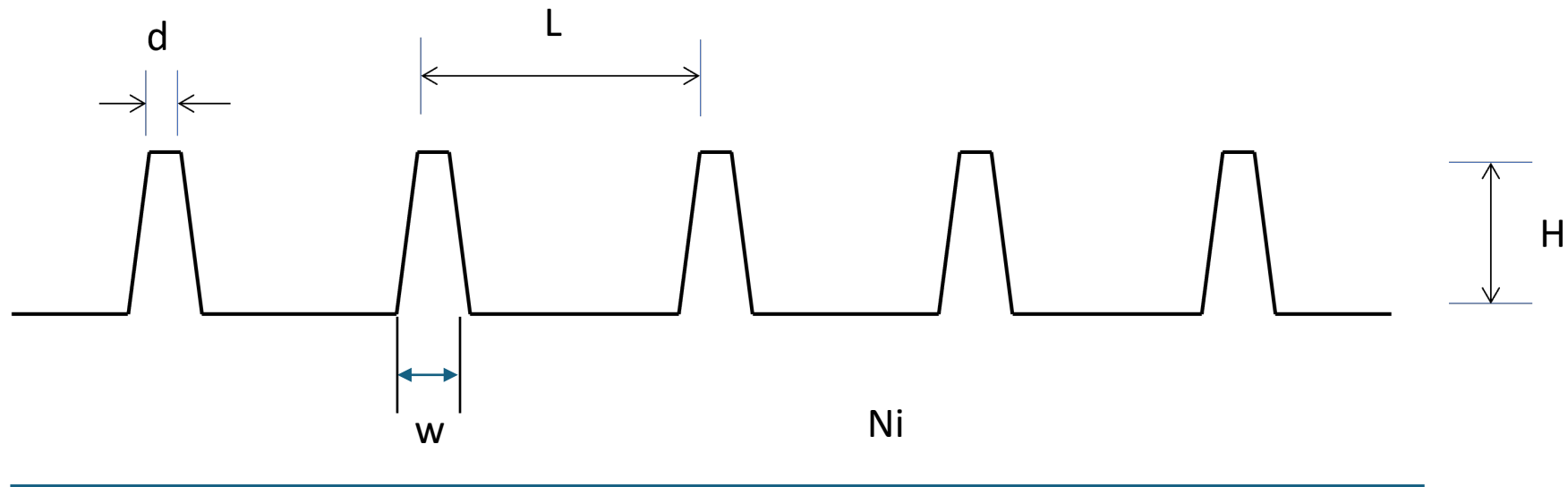
Estimated potential business volume	2025: 1 2026: 3 2027: 5
Estimated target price / unit cost information (if unavailable explain)	Best available. Acceptable pricing is to be determined in negotiation.
When is it needed by?	ASAP and ongoing

Describe packaging requirements	Best available. Delivered undamaged. Specifics discussed in negotiation.
Where will this item be shipped?	Columbus, Ohio

## Additional Comments

Is there other information you would like to include?	
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## Shim: Pattern



$d = 10 - 15\mu\text{m}$

$L = 250 - 350\ \mu\text{m}$

$H \sim 50\mu\text{m}$

$w = 20-40\ \mu\text{m}$

Shim material – Ni (other materials possible too)

Shim thickness – 300-600  $\mu\text{m}$

## Imprinted film

Size – up to 1.7m x 1.7 m

Options for film edge – 1), 2), 3) or 4)

UV resin (may be supplied by Nodis):

- RI after curing = 1.455 – 1.465
- Optically clear
- Transmission – from 0.5% to 10%
- Neutral color
- UV resin residual layer thickness – uniform, < 10um

PET/ITO – may be supplied by Nodis

