

mario cotta

Expando, General Information

Advantages

- Cutting quality not depending from operator's skill
- Min. Cut starts from 50mm
- Speed up to 1800 m/min
- Low maintenance cost: no regrinding, no shaft removal

Positioning

- Manual
- Visualized
- Automatic

Expando - Features





Expando – Expandable Shaft



Once bottom knives are positioned in order to reach the desired recipe, Expandable Shaft allows, thanks to its pneumatic expanders, the simultaneous blocking just providing air.

Whereas, bottom knife mounted on Plain Shaft Systems requires to be locked one by one by tightening via grub screw.



Expando – Expando Bottom Knife





Composed by:

- Support for Expandable Shaft
- Cutting ring in HSS Steel
- Locking flange of the ring on the support



HSS cutting ring can be opened and removed from the shaft.

NO SHAFT REMOVAL!!!

SIZE MATTERS!

Mario Cotta can provide solution from 110 mm up to 275 mm, suitable for almost every solution market might need.

Expando Advantages:

- Reduced maintenance time
- Increased lifetime of the HSS ring
- Double cutting edges of the ring
- Constant cutting point
- Stability and Minimum Cut granted by Triple Wing Concept

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Expando – Expandette Steel

Steel	Common Denomination	HRC Hardness	Reference Life	Internal Code Last Letter
100 Cr 6	Common Steel	58 - 60	1	"C"
K100	Chrome 12% Or D2	60-62	2	"X"
HSS	Super Rapid Steel	62-64	4	"H"
ASP2053	ASP	64-66	6	"P"
Tungsten Carbide	Tungsten Carbide	(HV10) 1680	10	"W"



PERMANENT SETTING AND FAST DISPLACEMENT

- Parameters (cutting angle, overlap and side load) are set at start-up, and are constant along all machine operation time NO REGRINDING = NO RE-SET!
- Manual System 3 min to displace 10 units; Automatic 3 min to displace 40 units

REDUCED MAINTENANCE TIME AND COSTS

- No Bottom Knife regrinding needed: exchange of EXPANDETTE HSS ring (high quality HSS, with double side cutting edge (each ring can be used for 2 times, and Ring vs Anvil cost is up to 1:5)
- No need of removing the Expandable Shaft
- Permanent parameters = Constant distance between knife and bottom knife High and constant cutting quality not depending from operator's skill

HIGHER SAFETY

- Simultaneous displacement and constant parameter do not require frequent tasks around sharpen edges
- No need of dismounting shafts and bottom knives, but only HSS rings (weight < 80g)

Expando – When and Where?



EXPANDO IS THE BEST SOLUTION ON THE MARKET WHEN...

- High number of Slits (>10)
- Frequent slitting width changes per day
- Need to reduce maintenance costs and downtime

...AND WHERE FOLLOWING DATA APPLIES

- Material: Tissue, Paperboard for Tubes, WNW, Aluminium
- Width: Up to 4.000 mm (Depending on max speed)
- Speed: Up to 1.800 m/min
- Min. cutting width: 50-60 mm (depending on speed/material)



Thank you for your attention. For further information

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