

DP Router Cutters with Shear Angle for Nesting (Densimet® Tungsten Heavy Metal Alloys)



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| D mm | I mm | L mm | S mm | Z | PACK QTY. | ORDER NO. Right-hand rotation |
|------|------|------|-------|-----------|-----------|----------------------------------|
| 12 | 25 | 70 | 12x40 | 3 (9 DP) | 1 | 143.120.61 |
| 12 | 31 | 80 | 12x40 | 3 (12 DP) | 1 | 143.121.61 |

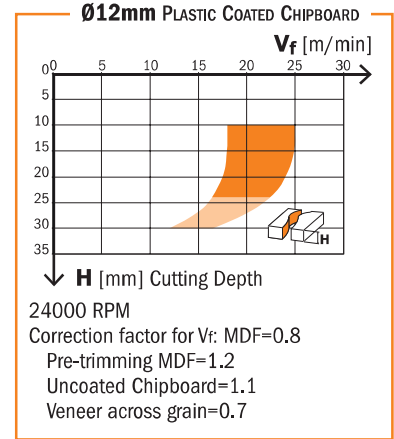
TECHNICAL DETAILS:

- Densimet® tungsten heavy metal alloys for low-vibration.
- DP cutting edge.
- Resharpenable cutter (max 6 times).

APPLICATION:

to be used on all CNC routers for jointing, rabbeting, grooving, copying and dividing cuts of raw material, melamine and laminates, MDF, HPL and veneered panels.

High performance on pre-and finish-routing.



DP Spiral Router Cutters with Shear Angle

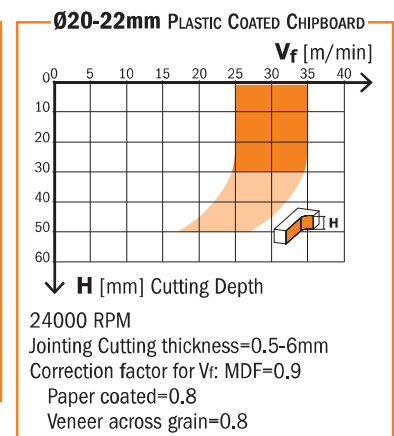
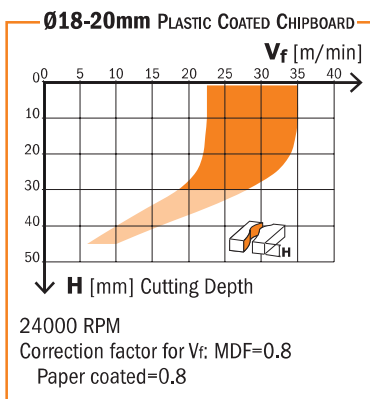


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| D mm | I mm | L mm | S mm | Z | PACK QTY. | ORDER NO. Right-hand rotation |
|------|------|-------|-------|----------------|-----------|----------------------------------|
| 18 | 25 | 82 | 20x50 | 3 (10 DP+1 HW) | 1 | 143.180.61 |
| 18 | 30 | 87 | 20x50 | 3 (13 DP+1 HW) | 1 | 143.181.61 |
| 18 | 35 | 92 | 20x50 | 3 (15 DP+1 HW) | 1 | 143.182.61 |
| 20 | 25 | 82 | 20x50 | 3 (10 DP+1 HW) | 1 | 143.200.61 |
| 20 | 30 | 85 | 20x50 | 3 (13 DP+1 HW) | 1 | 143.201.61 |
| 20 | 35 | 92,5 | 20x50 | 3 (15 DP+1 HW) | 1 | 143.202.61 |
| 20 | 40 | 97 | 20x50 | 3 (18 DP+1 HW) | 1 | 143.203.61 |
| 20 | 45 | 102 | 20x50 | 3 (21 DP+1 HW) | 1 | 143.204.61 |
| 20 | 50 | 106,5 | 20x50 | 3 (24 DP+1 HW) | 1 | 143.205.61 |
| 20 | 55 | 111 | 20x50 | 3 (27 DP+1 HW) | 1 | 143.206.61 |
| 20 | 60 | 116,5 | 20x50 | 3 (30 DP+1 HW) | 1 | 143.207.61 |
| 20 | 65 | 121,5 | 20x50 | 3 (31 DP+1 HW) | 1 | 143.208.61 |
| 22 | 30 | 92 | 25x50 | 3 (13 DP+1 HW) | 1 | 143.220.61 |
| □ 22 | 35 | 97 | 25x50 | 3 (15 DP+1 HW) | 1 | 143.221.61 |
| 22 | 40 | 102 | 25x50 | 3 (18 DP+1 HW) | 1 | 143.222.61 |
| □ 22 | 45 | 107 | 25x50 | 3 (21 DP+1 HW) | 1 | 143.223.61 |
| 22 | 50 | 112 | 25x50 | 3 (24 DP+1 HW) | 1 | 143.224.61 |
| □ 22 | 55 | 117 | 25x50 | 3 (27 DP+1 HW) | 1 | 143.225.61 |
| 22 | 60 | 122 | 25x50 | 3 (30 DP+1 HW) | 1 | 143.226.61 |
| □ 22 | 65 | 127 | 25x50 | 3 (31 DP+1 HW) | 1 | 143.227.61 |
| □ 22 | 70 | 132 | 25x50 | 3 (36 DP+1 HW) | 1 | 143.228.61 |

□ On request



TECHNICAL DETAILS:

- Super strength steel. - DP cutting edge.
- HW plunging tip for diagonal plunge-cutting (Z-axis tool entrance).
- Resharpenable cutter (max 10/12 times).

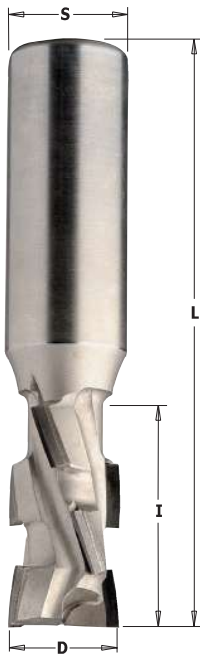
APPLICATION:

to be used on all CNC routers for jointing, rabbeting, grooving, copying and dividing cuts of raw material, melamine and laminates, MDF, HPL and veneered panels. High performance on pre-and finish-routing.



Results shown in this diagram are purely empirical, based merely on informative and hypothetical calculation. Each application may require different parameters in consideration of materials in use and machining conditions. CMT is not responsible for direct, indirect, incidental or consequential damages resulting from any defect, error or failure due to this diagram.

DP Router Cutters with Shear Angle



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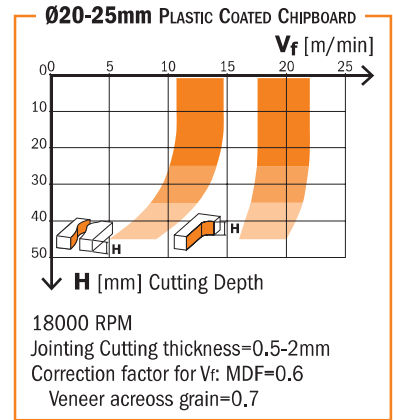
| D mm | I mm | L mm | S mm | Z | PACK QTY. | ORDER NO. Right-hand rotation |
|------|------|------|-------|------------------|-----------|----------------------------------|
| 20 | 27 | 85 | 20x50 | 2+2 (6 DP+1 HW) | 1 | 142.200.61 |
| 20 | 36 | 95 | 20x50 | 2+2 (8 DP+1 HW) | 1 | 142.201.61 |
| 20 | 45 | 105 | 20x50 | 2+2 (10 DP+1 HW) | 1 | 142.202.61 |
| 20 | 55 | 115 | 20x50 | 2+2 (12 DP+1 HW) | 1 | 142.203.61 |
| 25 | 27 | 90 | 25x55 | 2+2 (6 DP+1 HW) | 1 | 142.250.61 |
| 25 | 36 | 100 | 25x55 | 2+2 (8 DP+1 HW) | 1 | 142.251.61 |
| 25 | 45 | 110 | 25x55 | 2+2 (10 DP+1 HW) | 1 | 142.252.61 |
| 25 | 55 | 120 | 25x55 | 2+2 (12 DP+1 HW) | 1 | 142.253.61 |

TECHNICAL DETAILS:

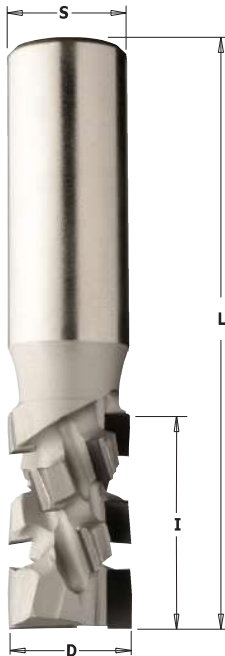
- Super strength steel.
- DP cutting edge.
- HW plunging tip for diagonal plunge-cutting (Z-axis tool entrance).
- Resharpenerable cutter (max 3 times).

APPLICATION:

to be used on all CNC routers for jointing, rabbeting, grooving, copying and dividing cuts of raw material, melamine and laminates, MDF, HPL and veneered panels.



DP Router Cutters with 20° Shear Angle



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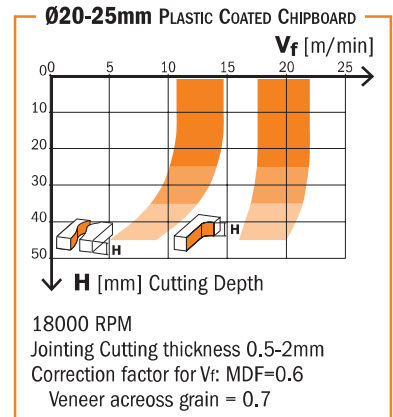
| D mm | I mm | L mm | S mm | Z | PACK QTY. | ORDER NO. Right-hand rotation |
|------|------|------|-------|------------------|-----------|----------------------------------|
| 20 | 25 | 85 | 20x45 | 2+2 (8 DP+1 HW) | 1 | 142.720.61 |
| 20 | 30 | 90 | 20x45 | 2+2 (10 DP+1 HW) | 1 | 142.721.61 |
| 20 | 35 | 95 | 20x45 | 2+2 (12 DP+1 HW) | 1 | 142.722.61 |
| 20 | 40 | 100 | 20x45 | 2+2 (14 DP+1 HW) | 1 | 142.723.61 |
| 20 | 45 | 105 | 20x45 | 2+2 (16 DP+1 HW) | 1 | 142.724.61 |
| 20 | 50 | 110 | 20x45 | 2+2 (18 DP+1 HW) | 1 | 142.725.61 |
| 20 | 55 | 115 | 20x45 | 2+2 (20 DP+1 HW) | 1 | 142.726.61 |

TECHNICAL DETAILS:

- Super strength steel.
- "H4" diamond cutting edges featuring 20° shear angle.
- HW plunging tip for diagonal plunge-cutting (Z-axis tool entrance).
- Resharpenerable cutters (max 8-10 times).

APPLICATION:

used on all CNC routers for jointing, rabbeting, grooving, copying and dividing raw material, melamine, laminated, MDF, HPL and veneered panels.



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DP Router Cutters with Shear Angle



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DP Z1+1 RH 40X LONGER LIFE THAN CARBIDE

| D mm | I mm | L mm | S mm | Z | PACK QTY. | ORDER NO. Right-hand rotation |
|-------|------|------|----------|-----------------|-----------|-------------------------------|
| 10 | 25 | 72 | 12x40 | 1+1 (3 DP+1 HW) | 1 | 140.03956 |
| 12 | 27 | 75 | 12x40 | 1+1 (3 DP+1 HW) | 1 | 140.120.61 |
| 12 | 35 | 85 | 12x40 | 1+1 (4 DP+1 HW) | 1 | 140.121.61 |
| 12,7 | 27 | 75 | 12,7x40 | 1+1 (3 DP+1 HW) | 1 | 140.127.61 |
| 12,7 | 35 | 85 | 12,7x40 | 1+1 (4 DP+1 HW) | 1 | 140.128.61 |
| 15,87 | 27 | 85 | 15,87x50 | 1+1 (3 DP+1 HW) | 1 | 140.158.61 |
| 15,87 | 45 | 103 | 15,87x50 | 1+1 (5 DP+1 HW) | 1 | 140.159.61 |
| 16 | 27 | 85 | 16x50 | 1+1 (3 DP+1 HW) | 1 | 140.160.61 |
| 16 | 35 | 93 | 16x50 | 1+1 (4 DP+1 HW) | 1 | 140.161.61 |
| 18 | 27 | 85 | 20x50 | 1+1 (3 DP+1 HW) | 1 | 140.180.61 |
| 18 | 35 | 95 | 20x50 | 1+1 (4 DP+1 HW) | 1 | 140.181.61 |
| 18 | 45 | 105 | 20x50 | 1+1 (5 DP+1 HW) | 1 | 140.182.61 |
| 19,05 | 27 | 85 | 19,05x50 | 1+1 (3 DP+1 HW) | 1 | 140.190.61 |
| 19,05 | 45 | 105 | 19,05x50 | 1+1 (5 DP+1 HW) | 1 | 140.192.61 |
| 20 | 27 | 85 | 20x50 | 1+1 (3 DP+1 HW) | 1 | 140.200.61 |
| 20 | 35 | 95 | 20x50 | 1+1 (4 DP+1 HW) | 1 | 140.201.61 |
| 20 | 45 | 105 | 20x50 | 1+1 (5 DP+1 HW) | 1 | 140.202.61 |
| 20 | 55 | 115 | 20x50 | 1+1 (6 DP+1 HW) | 1 | 140.203.61 |

TECHNICAL DETAILS:

- Super strength steel.
- DP cutting edge.
- HW plunging tip for diagonal plunge-cutting (Z-axis tool entrance).
- Resharpenable cutter (max 3 times).

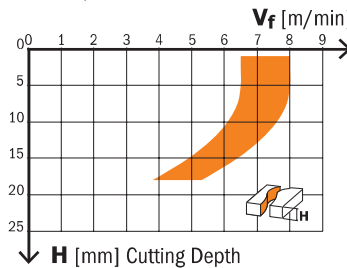
APPLICATION:

to be used on all CNC routers for jointing, rabbeting, grooving and copying of raw material, melamine and laminates, MDF, HPL and veneered panels.



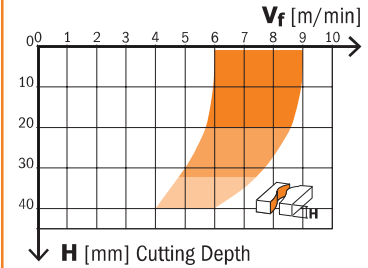
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Ø10-12,7mm PLASTIC COATED CHIPBOARD



24000 RPM
Correction factor for Vr: MDF=0.8
Veneer across grain=0.7
Chipboard without coating=1.1

Ø15,87-20mm PLASTIC COATED CHIPBOARD



18000 RPM
Correction factor for Vr: MDF=0.8
Veneer across grain=0.7
Chipboard without coating=1.1

DP Router Cutters with 45° Shear Angle



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DP Z1+1 RH 40X LONGER LIFE THAN CARBIDE

| D mm | I mm | L mm | S mm | Z | PACK QTY. | ORDER NO. Right-hand rotation |
|------|------|------|-------|-----------------|-----------|-------------------------------|
| 20 | 25 | 85 | 20x50 | 1+1 (6 DP+1 HW) | 1 | 140.720.61 |
| 20 | 35 | 95 | 20x50 | 1+1 (8 DP+1 HW) | 1 | 140.721.61 |
| 20 | 45 | 105 | 20x50 | 1+1 (9 DP+1 HW) | 1 | 140.722.61 |

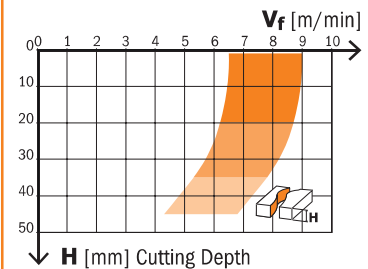
TECHNICAL DETAILS:

- Super strength steel.
- "H4" diamond cutting edges featuring 45° shear angle.
- HW plunging tip for plunge cutting.
- Resharpenable cutters (max 8-9 times).

APPLICATION:

to be used on all CNC routers for jointing, rabbeting, grooving and copying of raw material, melamine and laminates, MDF, HPL and veneered panels.

Ø20mm PLASTIC COATED CHIPBOARD



18000 RPM
Correction factor for Vr: MDF=0.8
Veneer across grain=0.7
Chipboard without coating=1.1

DP Router Cutters with Negative Shear Angle



new

CMT ORANGE TOOLS

DP Z1 RH **40X**
LONGER LIFE THAN CARBIDE



141 (HWM tool body)

| D mm | I mm | L mm | S mm | Z | PACK QTY. | ORDER NO. Right-hand rotation |
|---------|---------|---------|---------|--------|--------------|----------------------------------|
| 6 | 10 | 60 | 6 | 1 neg. | 1 | 141.260.61 |
| 8 | 15 | 65 | 8 | 1 neg. | 1 | 141.280.61 |
| 10 | 15 | 65 | 10 | 1 neg. | 1 | 141.300.61 |
| 12 | 20 | 70 | 12 | 1 neg. | 1 | 141.320.61 |

TECHNICAL DETAILS:

- Special super-micrograin carbide formulation
- Straight cutting edge.
- DP "H3".
- Resharpenable cutter (max 3 times).
- Feed speed on MDF 3-4 m/min for cutter Ø6 and Ø8mm and 4-5m/minute for Ø10 and Ø12mm

APPLICATION:

to be used on all CNC routers for jointing and sizing of solid wood and wood-based panels.



Negative Cutting Edge

DP Router Cutters



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DP Z1+1 Z1 RH **40X**
LONGER LIFE THAN CARBIDE

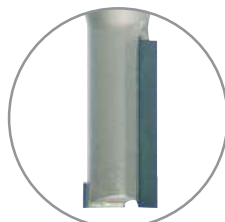
| D mm | I mm | L mm | S mm | Z | PACK QTY. | ORDER NO. Right-hand rotation |
|---------|---------|---------|---------|-----|--------------|----------------------------------|
| 6 | 8 | 65 | 12x40 | 1 | 1 | 141.060.61 |
| 8 | 12 | 65 | 12x40 | 1 | 1 | 141.080.61 |
| *10 | 22 | 75 | 12x40 | 1+1 | 1 | 141.101.61 |

TECHNICAL DETAILS:

- Super strength steel.
- DP cutting edge.
- HW plunging tip for diagonal plunge-cutting.
- Resharpenable cutter (max 3 times).
- Max feed speed 4 m/min.

APPLICATION:

to be used on all CNC routers for jointing and sizing of solid wood and wood-based panels.



* Construction Z1+1
for **141.101.61** item