RANGE OF MACHINES

A SERIES – BESIDE THE PRESS GRANULATORS
Type: A 15 · A 25 · A 35

G SERIES – ECONOMICAL GRANULATORS
Type: G 30 · G 45 · G 60

H SERIES – ECONOMICAL GRANULATORS
Type: H 60 · H 100

S SERIES – HIGH PERFORMANCE GRANULATORS
Type: S 60 · S 70 · S 100

Q SERIES – SINGLE SHAFT SHREDDERS
Type: Q 60 · Q 80 · Q 110 · Q 140 · Q 170
ABOUT CRUSHMASTER
Crushmaster offers modern and reliable recycling technology based on research and experience. Crushmaster covers the field of beside the press machines, medium central granulators, heavy-duty granulators and all-purpose shredders.

crushmaster is your first choice in dependable and solid machines, built to perform their duty on a day-to-day basis in a tough environment.
A SERIES –
BESIDE THE PRESS
GRANULATORS
APPLICATIONS
The A series slow speed granulators are mainly used in injection and blow molding processes as beside the press machines to grind runners and sprues. The resulting granules are then immediately reintroduced into the production process.
The curvature of the specially profiled rotor knives ensures a constant cutting radius after resharpening thus maintaining the original cutting gap. Awkward knife adjustment is no longer necessary.

Staggered rotor blades create an individual blade cut thus increasing the cutting torque. All of the machines in this series are therefore suitable for grinding more solid materials and thicker walled sprues.

The Quick Snap System allows the lower front plate section to be easily removed for granulator cleaning. The lower front plate section is held in position by two sturdy lever clamps.

### TECHNICAL DESCRIPTION

**On/Off and emergency stop switch**

**Time delay bolt**

**Belt drive**

**Feeding hopper**

**Safety switch**

**Drive motor**

**Quick Snap System**

**Detachable front plate**

**Easily removable screen**

**Suction bin for hopper loader**

**On/Off and emergency stop switch**

**Time delay bolt**

**Belt drive**

**Feeding hopper**

**Safety switch**

**Drive motor**

**Quick Snap System**

**Detachable front plate**

**Easily removable screen**

**Suction bin for hopper loader**

---

**A Series**

<table>
<thead>
<tr>
<th>Model</th>
<th>Rotor speed rotor (rpm)</th>
<th>Rotor diameter (mm)</th>
<th>Width of the rotor (mm)</th>
<th>Drive capacity (HP)</th>
<th>Number of rotor-/stator knives (pcs)</th>
<th>Feed opening (mm)</th>
<th>Opening cutting chamber (mm x mm)</th>
<th>Weight (approx. kg)</th>
<th>Width A (mm)</th>
<th>Length B (mm)</th>
<th>Height C (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>A 15</td>
<td>160</td>
<td>150</td>
<td>150</td>
<td>2</td>
<td>9 / 2 (4 cutting edges)</td>
<td>513 x 336</td>
<td>150 x 150</td>
<td>110</td>
<td>974</td>
<td>423</td>
<td>1162</td>
</tr>
<tr>
<td>A 25</td>
<td>160</td>
<td>150</td>
<td>250</td>
<td>3</td>
<td>15 / 2 (4 cutting edges)</td>
<td>513 x 439</td>
<td>150 x 250</td>
<td>120</td>
<td>974</td>
<td>519</td>
<td>1162</td>
</tr>
<tr>
<td>A 35</td>
<td>190</td>
<td>150</td>
<td>350</td>
<td>4</td>
<td>21 / 2 (4 cutting edges)</td>
<td>513 x 535</td>
<td>150 x 350</td>
<td>140</td>
<td>974</td>
<td>616</td>
<td>1162</td>
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</table>
GENERAL DESCRIPTION
The slow speed granulators in the A series feature a staggered 150 mm diameter rotor with widths ranging from 150 to 350 mm. The rotor is driven by a belt drive. The low rotor speed reduces the noise level and creates less dust while grinding. The special design knives of the A series can be sharpened easily and do not need adjustment afterwards. The material is fed via a sound absorbing feed hopper. They are mounted on either low or high level base frames with matching suction bins or bag filling adapters. Quick snap fasteners and hand screws make access to the machine for maintenance and cleaning fast and easy.

ADVANTAGES
» The curvature of the specially profiled rotor knives ensures a constant cutting radius after resharpening thus maintaining the original cutting gap. Awkward knife adjustment is no longer necessary.
» Staggered rotor blades create an individual blade cut thus increasing the cutting torque. All of the machines in this series are therefore suitable for grinding more solid materials and thicker walled sprues.
» The Quick Snap System allows the lower front plate section to be easily removed for granulator cleaning. The lower front plate section is held in position by two sturdy lever clamps.

A SERIES – BESIDE THE PRESS GRANULATORS

<table>
<thead>
<tr>
<th>A Series</th>
<th>A 15</th>
<th>A 25</th>
<th>A 35</th>
</tr>
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<tbody>
<tr>
<td>Rotor speed rotor (rpm)</td>
<td>160</td>
<td>160</td>
<td>190</td>
</tr>
<tr>
<td>Rotor diameter (mm)</td>
<td>150</td>
<td>150</td>
<td>150</td>
</tr>
<tr>
<td>Width of the rotor (mm)</td>
<td>150</td>
<td>250</td>
<td>350</td>
</tr>
<tr>
<td>Drive capacity (HP)</td>
<td>2</td>
<td>3</td>
<td>4</td>
</tr>
<tr>
<td>Number of rotor- / stator knives (pcs)</td>
<td>9 / 2 (4 cutting edges)</td>
<td>15 / 2 (4 cutting edges)</td>
<td>21 / 2 (4 cutting edges)</td>
</tr>
<tr>
<td>Feed opening (mm)</td>
<td>513 x 336</td>
<td>513 x 439</td>
<td>513 x 535</td>
</tr>
<tr>
<td>Opening cutting chamber (mm x mm)</td>
<td>150 x 150</td>
<td>150 x 250</td>
<td>150 x 350</td>
</tr>
<tr>
<td>Weight (approx. kg)</td>
<td>110</td>
<td>120</td>
<td>140</td>
</tr>
<tr>
<td>Dimensions (Low execution)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Width A (mm)</td>
<td>974</td>
<td>974</td>
<td>974</td>
</tr>
<tr>
<td>Length B (mm)</td>
<td>423</td>
<td>519</td>
<td>616</td>
</tr>
<tr>
<td>Height C (mm)</td>
<td>1162</td>
<td>1162</td>
<td>1162</td>
</tr>
</tbody>
</table>
G SERIES AND H SERIES – ECONOMICAL GRANULATORS

APPLICATIONS
The compact granulators of the G and H series are primarily designed for use in injection and blow moulding applications to recycle voluminous parts such as bottles, canisters and crates, as well as blow moulding flush and injection sprues. The low height makes them ideally suitable for the manual feeding of such parts. The low noise level and small footprint makes them the perfect fit for inline recycling operations.
G SERIES AND H SERIES – ECONOMICAL GRANULATORS

APPLICATIONS

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GENERAL DESCRIPTION

The economical granulators of the G and H series are available in two rotor diameters, 250 and 400 mm with widths ranging from 300 to 1000 mm.

The G series features an open F rotor while the H series relies on a heavier S rotor. The curved and highly tangential backwall of the cutting chamber ensures an aggressive ingestion while also avoiding blockages. The rigid design makes them dependable units and includes advanced standard features such as replaceable wear plates. The rotor and stator knives are adjusted outside of the machine to reduce downtime for maintenance.

TECHNICAL DESCRIPTION

Sturdy belt drive
V-Shaped rotor
Hinged screen holder
Suction trough

Curtains to prevent flybacks
Feeding hopper
Manual opening device
On / Off and emergency stop switch
Sturdy base frame
Anti-vibration pads

G SERIES AND H SERIES – ECONOMICAL GRANULATORS

ADVANTAGES

» Compact design, small footprint
» All knives are adjusted outside of the machine in a jig to reduce downtime for maintenance
» Aggressive infeed due to curved backwall of the cutting chamber
» Large screen area for high throughput rates
» Modern V-cut technology creates a high-quality regrind while reducing energy consumption and noise

Dimensions

<table>
<thead>
<tr>
<th>Model</th>
<th>Rotor diameter (mm)</th>
<th>Rotor width (mm)</th>
<th>Drive capacity (HP)</th>
<th>Rotor knives (pcs)</th>
<th>Stator knives (rows)</th>
<th>Feed opening (mm)</th>
<th>Length A (mm)</th>
<th>Length B (mm)</th>
<th>Width C (mm)</th>
<th>Width D (mm)</th>
<th>Height E (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>G 30</td>
<td>250</td>
<td>300</td>
<td>10</td>
<td>3 x 1</td>
<td>2</td>
<td>340 x 300</td>
<td>1207</td>
<td>860</td>
<td>870</td>
<td>440</td>
<td>1712</td>
</tr>
<tr>
<td>G 45</td>
<td>250</td>
<td>450</td>
<td>15</td>
<td>3 x 1</td>
<td>2</td>
<td>340 x 450</td>
<td>1207</td>
<td>860</td>
<td>1020</td>
<td>684</td>
<td>1712</td>
</tr>
<tr>
<td>G 60</td>
<td>250</td>
<td>600</td>
<td>20</td>
<td>3 x 2</td>
<td>2</td>
<td>340 x 600</td>
<td>1348</td>
<td>1000</td>
<td>1165</td>
<td>834</td>
<td>1712</td>
</tr>
<tr>
<td>H 60</td>
<td>400</td>
<td>600</td>
<td>30</td>
<td>3(5) x 2</td>
<td>2</td>
<td>490 x 590</td>
<td>1348</td>
<td>1120</td>
<td>1177</td>
<td>816</td>
<td>1914</td>
</tr>
<tr>
<td>H 100</td>
<td>400</td>
<td>1000</td>
<td>40</td>
<td>3(5) x 2</td>
<td>2</td>
<td>490 x 990</td>
<td>1348</td>
<td>1120</td>
<td>1577</td>
<td>1216</td>
<td>1914</td>
</tr>
</tbody>
</table>

Sound-proofed version

Stencil: 10
GENERAL DESCRIPTION
The economical granulators of the G and H series are available in two rotor diameters, 250 and 400 mm with widths ranging from 300 to 1000 mm.

The G series features an open F rotor while the H series relies on a heavier S rotor. The curved and highly tangential backwall of the cutting chamber ensures an aggressive ingestion while also avoiding blockages. The rigid design makes them dependable units and includes advanced standard features such as replaceable wear plates. The rotor and stator knives are adjusted outside of the machine to reduce downtime for maintenance.

ADVANTAGES
» Compact design, small footprint
» All knives are adjusted outside of the machine in a jig to reduce downtime for maintenance
» Aggressive infeed due to curved backwall of the cutting chamber
» Large screen area for high throughput rates
» Modern V-cut technology creates a high-quality regrind while reducing energy consumption and noise

<table>
<thead>
<tr>
<th>G and H Series</th>
<th>G 30</th>
<th>G 45</th>
<th>G 60</th>
<th>H 60</th>
<th>H 100</th>
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<tbody>
<tr>
<td>Dimensions</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Length A</td>
<td>(mm)</td>
<td>1207</td>
<td>1207</td>
<td>1348</td>
<td>1348</td>
</tr>
<tr>
<td>Length B</td>
<td>(mm)</td>
<td>860</td>
<td>860</td>
<td>1000</td>
<td>1120</td>
</tr>
<tr>
<td>Width C</td>
<td>(mm)</td>
<td>870</td>
<td>1020</td>
<td>1165</td>
<td>1177</td>
</tr>
<tr>
<td>Width D</td>
<td>(mm)</td>
<td>440</td>
<td>684</td>
<td>834</td>
<td>816</td>
</tr>
<tr>
<td>Height E</td>
<td>(mm)</td>
<td>1712</td>
<td>1712</td>
<td>1712</td>
<td>1914</td>
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<tr>
<td>Rotor diameter</td>
<td>(mm)</td>
<td>250</td>
<td>250</td>
<td>250</td>
<td>400</td>
</tr>
<tr>
<td>Rotor width</td>
<td>(mm)</td>
<td>300</td>
<td>450</td>
<td>600</td>
<td>600</td>
</tr>
<tr>
<td>Drive capacity</td>
<td>(HP)</td>
<td>10</td>
<td>15</td>
<td>20</td>
<td>30</td>
</tr>
<tr>
<td>Rotor knives</td>
<td>(pcs)</td>
<td>3 x 1</td>
<td>3 x 1</td>
<td>3 x 2</td>
<td>3(S) x 2</td>
</tr>
<tr>
<td>Stator knives</td>
<td>(rows)</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Feed opening</td>
<td>(mm)</td>
<td>340 x 300</td>
<td>340 x 450</td>
<td>340 x 600</td>
<td>490 x 590</td>
</tr>
</tbody>
</table>
APPLICATIONS

The S series granulators are mainly used as large central granulators for in house recycling applications to process large thick walled parts in one step or as a second step granulator after a shredder to achieve higher throughput rates.
APPLICATIONS
The S series granulators are mainly used as large central granulators for in house recycling applications to process large thick walled parts in one step or as a second step granulator after a shredder to achieve higher throughput rates.
ADVANTAGES

- The easily removable deflector wedge acts as a third stator blade and can be used to adjust the aggressiveness of the rotor at the first cutting point.
- The V-cut technology creates a high quality regrind while reducing energy consumption and noise.
- The heavy duty bearings are separated from the cutting chamber to avoid lubricants entering and bearing failure due to material contamination.
- Both, rotor and stator knives are adjusted outside the machine in a jig.

GENERAL DESCRIPTION

The high performance granulators of the S series offer widths ranging from 600 to 1000 mm with a diameter of 400 and 560 mm. The completely welded heavy steel construction is designed to withstand the most demanding and universal applications.

- Rotor bearings, knife mounts and rotor shaft are oversized.
- The standard V-cut creates a high quality regrind with a very low percentage of fines in the output material. The removable third stator blade (optional) is acting as a deflector wedge and allows the machine to be quickly adjusted to different application scenarios. Other standard features include easily adjustable knives as well as outboard bearings reducing the risk of contamination.

TECHNICAL DESCRIPTION

- Anti-vibration pads
- Upper housing
- Heavy duty outboard bearing
- Manual jack for opening (S 70, S 100: hydraulic pump)
- Drive motor
- Screen lock handles
- Access door for screen change
- Sturdy base frame
- Curtains to prevent flybacks
- Deflection wedge (3rd stator knife)
- V-shaped rotor
- Feeding hopper
- Materials discharge
- Time delay bolt / safety switch for machine opening
- Deflection wedge
- Rotor knives
- Stator knives

Dimensions

<table>
<thead>
<tr>
<th>Model</th>
<th>Rotor Diameter (mm)</th>
<th>Rotor Width (mm)</th>
<th>Drive Capacity (HP)</th>
<th>Rotor Knives (pcs)</th>
<th>Stator Knives (rows)</th>
</tr>
</thead>
<tbody>
<tr>
<td>S 60</td>
<td>400</td>
<td>600</td>
<td>50</td>
<td>5 x 2</td>
<td>2 + 1</td>
</tr>
<tr>
<td>S 70</td>
<td>560</td>
<td>700</td>
<td>75</td>
<td>5 x 2</td>
<td>2 + 1</td>
</tr>
<tr>
<td>S 100</td>
<td>560</td>
<td>1000</td>
<td>100</td>
<td>5 x 2</td>
<td>2 + 1</td>
</tr>
</tbody>
</table>

- Length A (mm): 1950, 2300, 2310
- Length B (mm): 1876, 2200, 2200
- Width C (mm): 1359, 1600, 1800
- Width D (mm): 1000, 1060, 1330
- Height E (mm): 3040, 3509, 3770
GENERAL DESCRIPTION
The high performance granulators of the S series offer widths ranging from 600 to 1000 mm with a diameter of 400 and 560 mm. The completely welded heavy steel construction is designed to withstand the most demanding and universal applications. Rotor bearings, knife mounts and rotor shaft are oversized. The standard V-cut creates a high quality regrind with a very low percentage of fines in the output material. The removable third stator blade (optional) is acting as a deflector wedge and allows the machine to be quickly adjusted to different application scenarios. Other standard features include easily adjustable knives as well as outboard bearings reducing the risk of contamination.

ADVANTAGES
» The easily removable deflector wedge acts as a third stator blade and can be used to adjust the aggressiveness of the rotor at the first cutting point.
» The V-cut technology creates a high quality regrind while reducing energy consumption and noise.
» The heavy duty bearings are separated from the cutting chamber to avoid lubricants entering and bearing failure due to material contamination.
» Both, rotor and stator knives are adjusted outside the machine in a jig.

S SERIES – HIGH PERFORMANCE GRANULATORS

S Series | S 60 | S 70 | S 100
---|---|---|---
Rotor diameter (mm) | 400 | 560 | 560
Rotor width (mm) | 600 | 700 | 1000
Drive capacity (HP) | 50 | 75 | 100
Rotor knives (pcs) | 5 x 2 | 5 x 2 | 5 x 2
Stator knives (rows) | 2 + 1 | 2 + 1 | 2 + 1
Opening cut. Chamber (mm x mm) | 630 x 600 | 700 x 650 | 1000 x 650

Dimensions
Length A (mm) | 1950 | 2300 | 2310
Length B (mm) | 1876 | 2200 | 2200
Width C (mm) | 1359 | 1600 | 1800
Width D (mm) | 1000 | 1060 | 1330
Height E (mm) | 3040 | 3509 | 3770
Q SERIES – SINGLE SHAFT SHREDDERS
APPLICATIONS
The Q series of single shaft shredders are suitable for processing almost all plastics. The machines will shred production waste, pipes, automotive parts, blow-moulded materials such as PET-bottles, PE/PP bottles, containers or buckets. Moreover, materials such as wood, paper, cardboard can be shredded without any problems.
GENERAL DESCRIPTION

The Q series are single shaft shredders with a powerful hydraulic horizontal feed ram. The machine is very versatile and can be used for shredding all kinds of input materials and is well suited for different industries. The 400 mm diameter rotors ranging from 600 to 1700 mm width are driven by a low speed, high torque geared drive.

The hydraulic power pack is well integrated into the machine housing to save space and protect it from damage but is still easy to access or remove for maintenance.

ADVANTAGES

- The shredders use concave ground square knives, producing high-quality output. The cutters can be turned after a side is worn out.
- All Crushmaster shredders are equipped with a large diameter flat rotor. The knives are fixed in special knife holders fitted in machined pockets.
- Easily removable screen for quick rotor access and screen change.

TECHNICAL DESCRIPTION

<table>
<thead>
<tr>
<th>Model</th>
<th>Rotor diameter (mm)</th>
<th>Rotor width (mm)</th>
<th>Drive capacity (HP)</th>
<th>Rotor knives (pcs)</th>
<th>Stator blades (rows)</th>
<th>Screen size (mm)</th>
<th>Effective working area (mm)</th>
<th>Weight (approx. kg)</th>
<th>Length A (mm)</th>
<th>Width B (mm)</th>
<th>Width C (mm)</th>
<th>Length E (mm)</th>
<th>Height G (mm)</th>
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</thead>
<tbody>
<tr>
<td>Q 60</td>
<td>400</td>
<td>580</td>
<td>20</td>
<td>13</td>
<td>1 x 2</td>
<td>12 - 100</td>
<td>520 x 470</td>
<td>1700</td>
<td>2010</td>
<td>1330</td>
<td>650</td>
<td>1260</td>
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<td>Q 80</td>
<td>400</td>
<td>860</td>
<td>30</td>
<td>20</td>
<td>1 x 3</td>
<td>12 - 100</td>
<td>800 x 820</td>
<td>2600</td>
<td>2690</td>
<td>1620</td>
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<td>Q 110</td>
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<td>40</td>
<td>27</td>
<td>1 x 4</td>
<td>12 - 100</td>
<td>1080 x 1040</td>
<td>3300</td>
<td>3170</td>
<td>1900</td>
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<td>55</td>
<td>34</td>
<td>1 x 5</td>
<td>12 - 100</td>
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<td>5300</td>
<td>4000</td>
<td>2350</td>
<td>1530</td>
<td>2230</td>
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<td>1700</td>
<td>75</td>
<td>41</td>
<td>1 x 6</td>
<td>12 - 100</td>
<td>1550 x 1650</td>
<td>6100</td>
<td>4323</td>
<td>2733</td>
<td>1981</td>
<td>2380</td>
<td>2366</td>
</tr>
</tbody>
</table>

- Serrated front plate and wear resistant guides for pusher
- Pusher with roller guides
- Improved torque arm
- High torque protection
- Easy access to hydraulic parts
- Sturdy gearbox
- Belt drive
- Drive motor
GENERAL DESCRIPTION
The Q series are single shaft shredders with a powerful hydraulic horizontal feed ram. The machine is very versatile and can be used for shredding all kind of input materials and is well suited for different industries. The 400 mm diameter rotors ranging from 600 to 1700 mm width are driven by a low speed, high torque geared drive.

The hydraulic power pack is well integrated into the machine housing to save space and protect it from damage but is still easy to access or remove for maintenance.

ADVANTAGES
» The shredders use concave ground square knives, producing high-quality output. The cutters can be turned after a side is worn out.
» All Crushmaster shredders are equipped with a large diameter flat rotor. The knives are fixed in special knife holders fitted in machined pockets.
» Easily removable screen for quick rotor access and screen change.

Q SERIES – SINGLE SHAFT SHREDDERS

<table>
<thead>
<tr>
<th>Q Series</th>
<th>Q 60</th>
<th>Q 80</th>
<th>Q 110</th>
<th>Q 140</th>
<th>Q 170</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rotor diameter (mm)</td>
<td>400</td>
<td>400</td>
<td>400</td>
<td>400</td>
<td>400</td>
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<tr>
<td>Rotor width (mm)</td>
<td>580</td>
<td>860</td>
<td>1140</td>
<td>1420</td>
<td>1700</td>
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<tr>
<td>Drive capacity (HP)</td>
<td>20</td>
<td>30</td>
<td>40</td>
<td>55</td>
<td>75</td>
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<tr>
<td>Rotor knives (pcs)</td>
<td>13</td>
<td>20</td>
<td>27</td>
<td>34</td>
<td>41</td>
</tr>
<tr>
<td>Stator blades (rows)</td>
<td>1 x 2</td>
<td>1 x 3</td>
<td>1 x 4</td>
<td>1 x 5</td>
<td>1 x 6</td>
</tr>
<tr>
<td>Screen size (mm)</td>
<td>12 - 100</td>
<td>12 - 100</td>
<td>12 - 100</td>
<td>12 - 100</td>
<td>12 - 100</td>
</tr>
<tr>
<td>Effective working area (mm)</td>
<td>520 x 470</td>
<td>800 x 820</td>
<td>1080 x 1040</td>
<td>1360 x 1430</td>
<td>1550 x 1650</td>
</tr>
<tr>
<td>Weight (approx. kg)</td>
<td>1700</td>
<td>2600</td>
<td>3300</td>
<td>5300</td>
<td>6100</td>
</tr>
</tbody>
</table>

Dimension
Length A (mm) | 2010 | 2690 | 3170 | 4000 | 4323 |
Width B (mm) | 1330 | 1620 | 1900 | 2350 | 2733 |
Width C (mm) | 650 | 930 | 1210 | 1530 | 1981 |
Width D (mm) | 580 | 860 | 1140 | 1420 | 1700 |
Length E (mm) | 1260 | 1620 | 1880 | 2230 | 2380 |
Length F (mm) | 470 | 820 | 1090 | 1400 | 1550 |
Height G (mm) | 1786 | 1876 | 1982 | 2286 | 2366 |