



## HIGH PROFILE ENGINEERS

THE LARGEST ROLLER & MESSCHAERT GROOVING TOOLS COMPANY IN INDIA.

PIONEERS YESTERDAY. EXPORTERS TODAY.





## Legacy of Excellence...

In India the name of High Profile Engineers has been synonymous with most of the sugar mills for Tailor Made Sugar Roller Grooving Tool & Messchaert Grooving Tool for feed roller. Our legacy of excellence for over twenty years has established High Profile Engineers to be one of the largest Roller Grooving Tools & Messchaert Grooving tools manufacturing company in India with large part of its production being exported to countries like South Africa, East Africa, Mauritius, Australia & many more.

### Genesis of High Profile Tools Silver V/ S Brass.

- Brass Melts at about 900°C.
- Silver melting point is at about 600°C.

Carbide microstructure gets adversely affected beyond temperatures of 650°C.

Hence brass brazing, although cheap, severely reduces the efficiency of the carbide tip.



**Sandwich Effect:**

At High Profile, silver is used for even better brazing, a copper foil sandwiches a silver foil, ensuring uniform spread of silver.

**Result:**

Steadfast brazing. Far superior to brass & even conventional brazing.

High Profile brazing joint can withstand heavy shearing forces more than 10kgs / mm.

**High Profile Cutting Edge:**

The carbide tip is precision ground on ultra modern special purpose two axis CNC carbide tip grinding machine with diamond wheel. This gives enhanced tool life & accurate geometry of all clearance angles.

Immaculate finish of the cutting edge is ensured by lapping with diamond lapping wheel.

**Quality Assurance:**

Destructive test for brazing strength for tools selected on random basis from each batch confirms steady fast brazing from batch to batch.

Geometrical parameter are checked for each tool  
Accurate clearances

1. Correct rake angles.
2. Best Quality Carbide tips are used in the manufacturing. They are subject to a complete incoming inspection.

**Tailor Made Sugar Roller Grooving Tool - Grade K20**

Sr. No.	Ordering Code	Dimensions in mm	Ø
1	HPE - RGT - 1001	40 X 40 X 300	35°*
2	HPE - RGT - 1002	40 X 40 X 300	40°*
3	HPE - RGT - 1003	40 X 40 X 300	45°*
4	HPE - RGT - 1004	40 X 40 X 300	50°*
5	HPE - RGT - 1005	40 X 40 X 300	55°*
6	HPE - RGT - 1006	40 X 40 X 300	60°#
7	HPE - RGT - 1001	50 X 50 X 300	35°*
8	HPE - RGT - 1002	50 X 50 X 300	40°*
9	HPE - RGT - 1003	50 X 50 X 300	45°*
10	HPE - RGT - 1004	50 X 50 X 300	50°*
11	HPE - RGT - 1005	50 X 50 X 300	55°*
12	HPE - RGT - 1006	50 X 50 X 300	60°#
13	HPE - RGT - 2525 - 1001	25 X 25 X 300	35°*
14	HPE - RGT - 2525 - 1002	25 X 25 X 300	40°*
15	HPE - RGT - 2525 - 1003	25 X 25 X 300	45°*
16	HPE - RGT - 2525 - 1004	25 X 25 X 300	50°*
17	HPE - RGT - 2525 - 1005	25 X 25 X 300	55°*
18	HPE - RGT - 2525 - 1006	25 X 25 X 300	60°#

\* Generally available in stock.

# Generally available in 4-6 weeks  
(Minimum order quantity will apply)

**Tailor Made Messchaert Grooving Tool - Grade K20**

Sr. No.	Ordering Code	Dimensions in mm
1	HPE - MGT - 1001	32 X 32 X 300 (6 x 30mm Carbide Tip)
2	HPE - MGT - 1002	32 X 32 X 300 (8 x 30mm Carbide Tip)

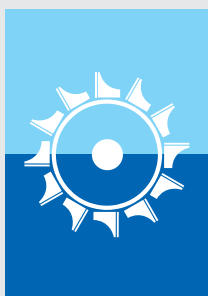


### **Advantages:**

- Bigger size tip brings down roller grooving time by 50% or even more.
- High profile cutting edge & special clearance angles makes savings on grooving tools cost by 30% or even more.

### **Manufacturers of**

- Sugar Roller Grooving Tools
- Messchaert Grooving Tools & All types of Cutting Tools



## **HIGH PROFILE ENGINEERS**

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