

HALO

With the HALO product line, Tyrolit defines a new concept for edge grinding of automotive glass. As well as high process speed, low dressing frequency and a clean edge, the design of a single use wheel offers several new advantages and added value compared to a standard repeatedly reprofiled wheel.

Minimum startup time:
Specific alloys grant a perfect edge finish from the first piece and maximum speed can be reached after few pieces.

Machine set up minimized:
because only new wheels with precise geometry are used the machine setting and working parameters are always the same.

Economic advantage: Minimized investment in new wheels; significant reduction of handling/logistic efforts and reduced spindle maintenance due to a lighter wheel that reduce vibrations during work.

Easy installation in few seconds and proper positioning are granted by specifically designed cones and adaptors.

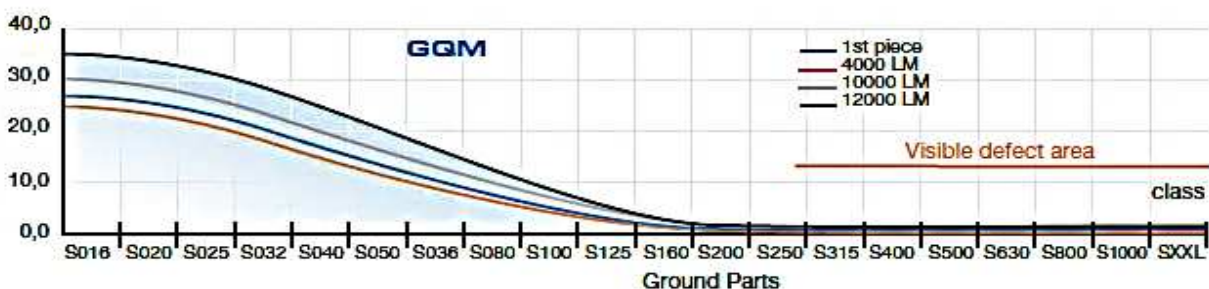
Increased productivity: Thanks to a reduced set up time and to the possibility to install more wheels on the same cone allowing to work continuously. TYROLIT also guarantees dimensional tolerances from the very first piece produced.



GQM chart analysis of a processed glass edge.

Machine parameters

Glass thickness (mm)	2,1
Grinding speed	30
Peripheral speed /m/sec	55
Dressing freq (LM)	160
GQM Medium	28,5



HALO

SINGLE USE AUTOMOTIVE GRINDING WHEEL

Ø mm	Glass mm	Material	Application
150	< 3,0	Laminated glass	Windshield and Sidelight
150	3,0 - 3,7	Tempered glass	Sidelight, backlight, sunroof
150	3,71 - 4,0	Tempered glass	Sidelight, backlight, sunroof
150	4,1 - 6,0	Tempered glass	Sidelight, backlight, sunroof
200	< 3,0	Laminated glass	Windshield and Sidelight
200	3,0 - 3,7	Tempered glass	Sidelight, backlight, sunroof
200	3,71 - 4,0	Tempered glass	Sidelight, backlight, sunroof
200	4,1 - 6,0	Tempered glass	Sidelight, backlight, sunroof

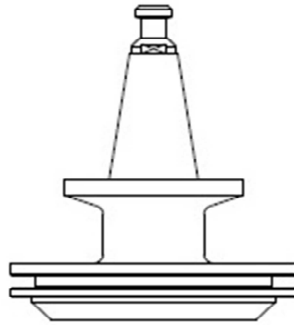
WORKING SPECIFICATIONS

Application	Spec.	Grinding speed	Dressing	Refrigeration	Radius of removal
Laminated windshield	PKD 5051	Low and high ≤ 40m/min	Automatic	Just water/Coolant	≤ 0,6mm
Laminated windshield, sidelight and sunroof	PKE 5051	Low and high ≤ 40m/min	Automatic	Coolant	≤ 0,3mm
Tempered sidelight	PKD 50C5	Low speed ≤ 16m/min	Manually/Automatic	Just water/Coolant	≤ 0,5mm
Tempered backlight	PKE 50C5	Low speed ≤ 16m/min	Manually/Automatic	Just water/Coolant	≤ 0,5mm
Tempered sidelight and backlight	PKE 6551	Low and high ≤ 30m/min	Automatic	Coolant	≤ 0,3mm

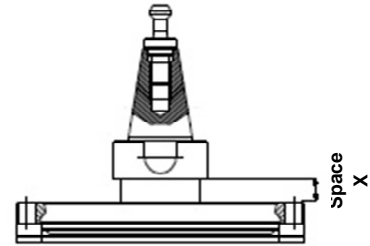
HALO

The tool holder and adaptors are specifically designed to grant easy installation in few seconds and proper positioning for the best performances

TOOL HOLDER



Bystronic



Bando

Description	Machine	Diameter of HALO	Number of HALO on the holder	Space X	Drawing	Sysnr
		mm		mm		
Tool holder	Bottero	150	1 HALO	---	EA0238	34174546
Tool holder	Bystronic	150	1 HALO	---	EA0137	34248314
Tool holder	Bystronic B-Champ	150	2-3-4 HALO	---	EA0139	34315304
Tool holder	Bando Old models	150	1 HALO	13,5	EA0138	34303922
Tool holder	Bando New models	150	1 HALO	17,0	EA0236	34170551
Tool holder	Bando New models	150	2 HALO	17,0	EA0237	34174545
Tool holder	Bando New models	150	4 HALO	17,0	EA0242	34219640

ADAPTOR FOR STANDARD CONES

Description	Machine	Diameter of HALO	Diameters	Drawing	Sysnr
		mm	mm		
Adaptor	Bando/Bystronic	150	63,5/116	E03037	34155377
Adaptor	Bando	150	30/116	E03185	34190039
Adaptor	R&S	150	25/116	E03195	34191353

EXTRACTOR

Description	Tool holder	Drawing	Sysnr
Extractor	Bando	E03038	34155376
Extractor	Bystronic	E03112	34180098