ABRASIVE TOOLS FOR THE FOUNDRY INDUSTRY

Heavy industry, mainly foundries, steel mills or other steel plants usually operate very intensively, keeping production at "full capacity."

More than 35 years of experience in the abrasive industry allows ANDRE to offer a wide range of products dedicated to the foundry industry. These are abrasive tools that are commonly used for cutting and grinding heavy castings of large dimensions, light castings, as well as parts with complex shapes.

GRINDING OPERATIONS WITH ANDRE ABRASIVE TOOLS

CUTTING-OFF THE ELEMENTS OF CASTINGS

- Cutting-off

GRINDING OF CASTING

- Grinding of light castings - stationary machines
- Grinding of heavy and large castings – swing frame machines and manipulators
- Grinding of heavy and large castings and hard-to-reach surfaces – hand-held machines

ANDRE®
abrasive articles

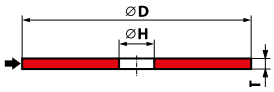
CUTTING-OFF CASTINGS

Various groups of abrasive tools are used in casting cutting-off operations. Cutting-off wheels types 41 and 42 are commonly used in the foundry industry. Depending on the size and requirements, they work with a variety of grinding – cutting-off machines, including hand-held, bench, stationary, swing frame. These grinding wheels are mechanically reinforced and designed for operation at speeds of 80 [m/s] and 100 [m/s] (part of the type 41 range with special reinforcement). The grinding wheels are available in three product lines: ECO LINE, PRO LINE and MASTER LINE.

ANDRE also offers superhard type 1A1R electroplated wheels. These wheels, designed for cutting-off iron castings, are characterized by exceptionally high performance and service life.

• CUTTING-OFF

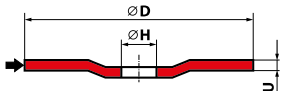
| TYPE 41



41 - D × T × H

Examples of implemented abrasive tools in industry [*]				
Type	Dimensions [mm]	Technical characteristics	Version	Speed [m/s]
41	230 × 2,5 × 22,23	95A24RBF	STANDARD	80
41	230 × 3,0 × 22,23	98C24RBF	STONE	80
41	300 × 3,0 × 40	AZ24U8BF	FOUNDRY	80
41	350 × 3,5 × 32	95A24TBF	EXTRA	80
41	400 × 4,0 × 32	95A24TBF	EXTRA	80
41	400 × 4,0 × 32	98C24RBF	STONE	80
41	500 × 5,6 × 40	ZRA24N7BF	FOUNDRY	80
41	600 × 7,0 × 76	95A24RBF	STANDARD	80

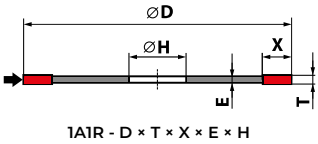
| TYPE 42



42 - D × U × H

Examples of implemented abrasive tools in industry [*]				
Type	Dimensions [mm]	Technical characteristics	Version	Speed [m/s]
42	125 × 2,5 × 22,23	95A30RBF	STANDARD	80
42	230 × 3,0 × 22,23	98C24RBF	STONE	80
42	230 × 3,0 × 22,23	95A24RBF	STANDARD	80
42	230 × 3,0 × 22,23	95A24TBF	EXTRA	80

| TYPE 1A1R



1A1R - D × T × X × E × H

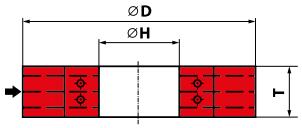
Examples of implemented abrasive tools in industry [*]		
Type	Dimensions [mm]	Technical characteristics
1A1R	230 × 3 × 5 × 1,7	D711GA2
1A1R	230 × 3,7 × 5 × 2,4	D711GA2

GRINDING OF CASTING

• GRINDING OF LIGHT CASTINGS - STATIONARY MACHINES

Stationary grinding machines in foundries are used to process light weight castings. In this operation workpiece is manually guided by the operator. Our experience allows us to propose technical characteristics of grinding wheels which ensure quick material removal and long life of the grinding wheel.

| TYPE 1



1 - D × T × H

Examples of implemented abrasive tools in industry [*]			
Type	Dimensions [mm]	Technical characteristics	Speed [m/s]
1	250 × 32 × 25,4	95A20P6B51	50
1	300 × 40 × 51	95A24P6B51F	50
1	350 × 50 × 127	95A24P6B51F1	50
1	400 × 51 × 152,4	602A3Z16P/Q5B807F3	80
1	500 × 60 × 127	ZRA12Q/R5B665F5	80
1	500 × 63 × 51	95A16O5B305F4	63
1	600 × 60 × 203	AV3ZAC16X6B691F5	80
1	762 × 80 × 305	ZRA14/16Q5B51F4	63

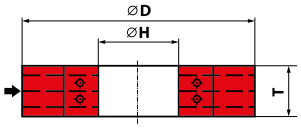
[*] For the full range of dimensions and available technical characteristics ask the Sales Department.

GRINDING OF HEAVY AND LARGE CASTINGS – SWING FRAME MACHINES AND MANIPULATORS

Swing frame machines and manipulators are used for grinding large-scale heavy parts.

ANDRE has a range of grinding wheels for the above applications. Our experience allows us to propose technical characteristics of grinding wheels which ensure quick material removal and long life of the grinding wheel.

| TYPE 1



1 - D × T × H

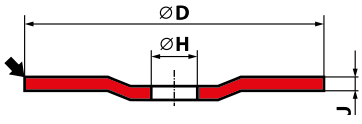
Examples of implemented abrasive tools in industry [*]			
Type	Dimensions [mm]	Technical characteristics	Speed [m/s]
1	400 × 50 × 127	95AY24Q5B51	50
1	400 × 51 × 152,4	602A3Z16P5B807F3	80
1	500 × 60 × 127	ZRA12Q/R5B665F5	80
1	500 × 63 × 51	95A16O5B305F4	63
1	600 × 75 × 203	ZRA16Q5B665F5	80
1	600 × 76 × 203,2	5ZRA12R5B730F5	63

GRINDING OF HEAVY AND LARGE CASTINGS AND HARD-TO-REACH SURFACES – HAND-HELD MACHINES

Hand-held grinders are commonly used in foundries, especially in case of large and heavy castings, or in case of surfaces difficult to reach.

ANDRE offers wide range of abrasive products and we are ready to help in selection of appropriate product for every, even the most demanding grinding operation. Thanks to various shapes and dimensions of tools we offer, grinding of hard to reach surfaces will be easy now. The advantages of our grinding wheels are: user safety, high efficiency and affordable price.

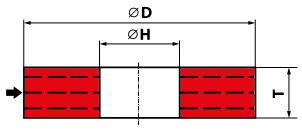
| TYPE 27



27 - D × U × H

Examples of implemented abrasive tools in industry [*]				
Type	Dimensions [mm]	Technical characteristics	Version	Speed [m/s]
27	125 × 7,0 × 22,23	XA30RBF	DUAL FOUNDRY	80
27	230 × 7,0 × 22,23	3ZA24RBF	FOUNDRY	80
27	230 × 8,0 × 22,23	95A24QBF	STANDARD	80
27	230 × 8,0 × 22,23	95A24TBF	EXTRA	80
27	230 × 8,0 × 22,23	98C24QBF	STONE	80

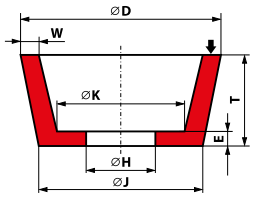
| TYPE 1



1 - D × T × H

Examples of implemented abrasive tools in industry [*]			
Type	Dimensions [mm]	Technical characteristics	Speed [m/s]
1	50 × 20 × 9,53	3ZRA12P6B730	63
1	75 × 10 × 10	95A16QBF3	50
1	80 × 20 × 20	95A24P6B51	50
1	100 × 25 × 20	95A24P6B51	50
1	125 × 25 × 20	95A24P6B51	50
1	150 × 64 × 20	ZRA16T6B739	50
1	200 × 32 × 20	95A24R5B51	50

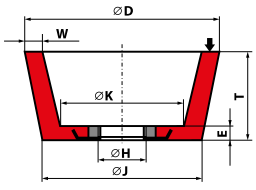
| TYPE 11



11 - D/J × T × H - W...E...K...

Examples of implemented abrasive tools in industry [*]			
Type	Dimensions [mm]	Technical characteristics	Speed [m/s]
11	110/90 × 55 × 22,23 - W20E14K48	95A16QB97	50
11	110/90 × 55 × 22,23 - W20E14K48	98C16NB97	50

| TYPE 1112

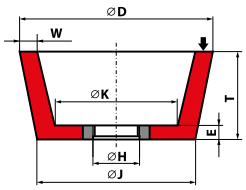


1112 - D/J × T × H - W...E...K...

Examples of implemented abrasive tools in industry [*]			
Type	Dimensions [mm]	Technical characteristics	Speed [m/s]
1112	125/100 × 50 × M14 - W25E20K50	95A16QB97	50

[*] For the full range of dimensions and available technical characteristics ask the Sales Department.

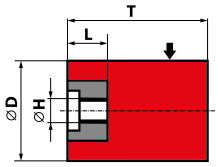
| TYPE 1114



1114 - D/J × T × H - W...E...K...

Examples of implemented abrasive tools in industry [*]			
Type	Dimensions [mm]	Technical characteristics	Speed [m/s]
1114	80/54 × 50 × M14 - W10E15K30	95A24Q6B97	50
1114	100/80 × 50 × M14 - W20E20K45	98C46QB630	50

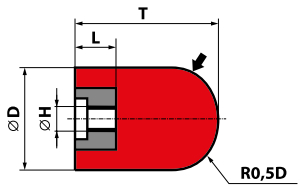
| TYPE 18



18 - D × T-H × L

Examples of implemented abrasive tools in industry [*]			
Type	Dimensions [mm]	Technical characteristics	Speed [m/s]
18	32 × 51-3/8" × 20	98C24Q6B97	50
18	50 × 65-5/8" × 20	95A16TB420	50

| TYPE 18R

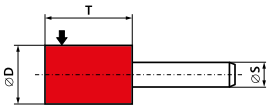


18R - D × T-H × L

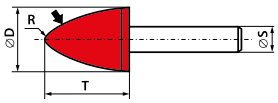
Examples of implemented abrasive tools in industry [*]			
Type	Dimensions [mm]	Technical characteristics	Speed [m/s]
18R	50 × 75-5/8"UNC × 25	98C20R6B97	50
18R	50 × 100-5/8"UNC × 25	98C20Q6B97	50

MOUNTED POINTS

| TYPE 5210 | TYPE 5220



5210 - D × T × S

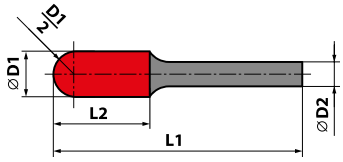


5220 - D × T × S - R...

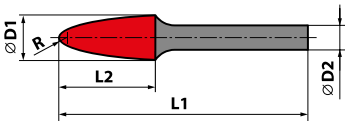
Examples of implemented abrasive tools in industry [*]			
Type	Dimensions [mm]	Technical characteristics	Speed [m/s]
5210	20 × 40 × 6	58A302P5VTE10	40
5210	30 × 20 × 6	95A30R8B618	40
5210	50 × 30 × 6	CRA60M5VE01	40
5220	25 × 40 × 6 - R6	58A24P5VTE10	40

ROTARY BURRS

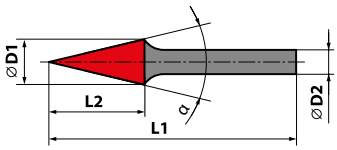
| TYPE C | TYPE F | TYPE M



C - D1 × L2 × L1 × D2



F - D1 × L2 × L1 × D2



M - D1 × L2 × L1 × D2

Examples of implemented abrasive tools in industry [*]			
Shape	Dimensions [mm]	Product Line	
C	8 × 20 × 6	Eco Line	Pro Line
C	12,7 × 25 × 6	Eco Line	Pro Line
F	12,7 × 25 × 6	Eco Line	Pro Line
M	12,7 × 25 × 6	Eco Line	Pro Line

[*] For the full range of dimensions and available technical characteristics ask the Sales Department.

ANDRE®
abrasive articles

WIDE, PROVEN RANGE OF ANDRE ABRASIVE TOOLS KNOWN WELL IN THE INDUSTRY

ANDRE ABRASIVE ARTICLES
Spółka z ograniczoną odpowiedzialnością Sp. k.
PL 62-600 Koło; Przemysłowa str. 10

HEAD OFFICE
tel.: +48 63 26 26 300
e-mail: aaa@andre.com.pl

EXPORT DEPARTMENT
tel. : +48 63 26 26 301 / 343 / 360
e-mail: inquiries@andre.com.pl

CUSTOMER SERVICE DEPARTMENT
tel.: +48 63 26 26 349 / 365
e-mail: tok@andre.com.pl

www.andre.com.pl